

Massachusetts 1993



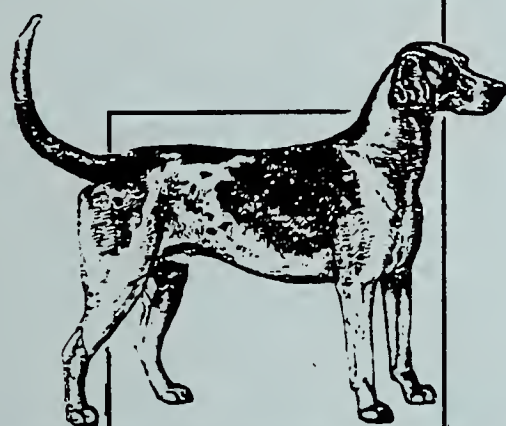
Feed and Fertilizer Report

Massachusetts Department of Food and Agriculture
Bureau of Farm Products

GOVERNMENT DOCUMENTS
COLLECTION

APR 2 1994

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Trudy Coxe
Secretary of Environmental Affairs

Jonathan L. Healy
Commissioner of Food and Agriculture

George Porter
Chief, Bureau of Farm Products

PREFACE

This publication consists of reports of the work assigned to the Massachusetts Agricultural Experiment Station by authority of the Feed Act (General Laws, Chapter 128, Section 51 to 63 inclusive) and the Fertilizer and Liming Materials Act (General Laws, Chapter 128, Section 64 to 83 inclusive).

Included are Feed Report (Number 96 for the Fiscal Year 1993), and the Fertilizer and Liming Material Report (Number 116 for the Fiscal Year 1993).

For information concerning this report on the analyses of feeds, fertilizers and liming materials, please write to:

**Official Chemist
Feed and Fertilizer Laboratory
University of Massachusetts
West Experiment Station
Amherst, Mass. 01003**

REGULATORY INFORMATION

Feed and Fertilizer Control: Registration of Feed, Pet Food, Fertilizer and Liming Material Products write to:

**George M. Porter, Control Official
Bureau of Farm Products
MA Dept. of Food & Agriculture
100 Cambridge Street
Boston, MA 02202**

Telephone: 617-727-3020 Ext. 141

For information concerning companies registered for the year please contact the Control Official at the above address.

INDEX

	<u>Pages</u>
Inspection of Commercial Feedstuffs For 1993	1 - 18
Feed Registration For 1993	19 - 37
Inspection of Commercial Fertilizers and Agricultural Liming Materials For 1993	38 - 52
Specialty Fertilizer Registration For 1993	53 - 61
Commercial Fertilizer Registration For 1993	62 - 63
Limestone Registration For 1993	64 - 65
Massachusetts Annual Fertilizer Report	66 - 67

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INSPECTION OF COMMERCIAL FEEDSTUFFS

Report Number 96 for the Fiscal Year

Ending 1993

By the Feed Laboratory Staff of the

Feed and Fertilizer Laboratory

West Experiment Station, Amherst, MA 01003

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STATE FEED INSPECTORS:

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FEED MANUFACTURERS TESTED

ROBERT ABADY DOG FOOD CO., 201 SMITH ST., POUGKEEPSIE, NY 12601

AGWAY, INC./ COUNTRY FOODS DIV., 333 BUTTERNUT DR. DEWITT, NY 13214

AGWAY, INC. P.O. BOX 4933, SYRACUSE, NY 13221

AGWAY, INC. P.O. BOX 4751, SYRACUSE, NY 13221

AGWAY, INC. P.O. BOX 4741, SYRACUSE, NY 13221

BLUE SEAL FEEDS, INC., P.O. BOX 8, LAWRENCE, MA 01842

CARGILL INC./NUTRENA FEED DIV., P.O.BOX 9300, DEPT. 14, MINNEAPOLIS,MN 55440

FM BROWN'S SONS INC., 205 WOODROW AVE., SINKING SPRING, PA 19608

EIGHT-IN-ONE PET FOOD PRODUCTS INC. 2100 PACIFIC ST. HAUPPAUGE, NY 11788

FEDERAL FOODS, INC., 13145 N.GREEN BAY RD. BOX 365, MEQUON, WI 53092

FRISKIES PETCARE PRODUCTS, 800 N. BRAND BLVD., GLENDALE, CA 91203

HILL'S PET PRODUCTS/COLGATE PALMOLIVE, P.O.BOX 148, TOPEKA, KS 66601

THE IAMS COMPANY, P.O. BOX 189, LEWISBURG, OH 45338

KAYTEE PRODUCTS INC., 292 EAST GRAND ST., CHILTON, WI 53014

KELLY FOODS CORP., 10313 OLD OCEANIC CITY BLVD., BERLIN, MD 21811

L/M ANIMAL FARMS, 10279 ST.,ROUTE 132, PLEASANT PLAIN, OH 45162

MANNA PRO CORP., 2962 SOUTH CEDAR AVE., FRESNO, CA 93725

NATURE'S RECIPE, 341 BONNIE CIRCLE, CORONA, CA 91720

NATURAL LIFE PET PRODUCTS, INC., P.O.BOX 943, FRONPENAC, KS 66762

NUTRO PRODUCTS,INC., 445 WILSON WAY, CITY OF INDUSTRY, CA 91744

OHIO BLENDERS INC., 2404 SUMMIT ST., TOLEDO, OH 43611

**OLD MOTHER HUBBARD DOG FOOD CO., INC., 80 ROGERS ST., P.O.BOX 1411,
LOWELL, MA 01853**

OLD WEST PET TREATS, 1226 NORTH 11th AVE., GREELEY, CO 80631

O.S.I. MARINE LAB, INC., 3550 ARDEN RD., HAYWARD, CA 94545

PALMER GREEN, INC., P.O. BOX 326, SHIPPESBURG, PA 17527

**PET PRODUCTS PLUS INC., 1600 HERITAGE LANDING, SUITE 112, ST. CHARLES,
MO 63303**

PETS INTERNATIONAL, 171 ORCHARD RD., CHESTER HILL, NSW

PET SPECIALTIES, INC., P.O. BOX 258, NASHVILLE, TN 37202

POULIN GRAIN INC., 3 RAILROAD SQUARE, NEWPORT, VT 05855

PRO-PET INC., P.O.BOX 5064, SYRACUSE, NY 13220

PMI FEEDS, INC., 1401 SOUTH HADLEY RD., ST. LOUIS, MO 63144

QUAKER OATS COMPANY, 321 N. CLARK ST., CHICAGO, IL 60654

RALSTON PURINA CO., CHECKERBOARD SQUARE, ST. LOUIS, MO 63164

S & M PET FOOD, 177 MAIN ST. #235 S, FORT LEE, NJ 07024

SODA & PET FOOD CITY INC., 11 RAMAB CIRCLE, AGAWAM, MA 01001

SUNFLOWER, INC., BOX 169, GRANDIN, ND 58038

TIZWHIZ DIST. INC., 774 PEACHBLOW RD., DELAWARE, OH 43015

TRIUMPH PET INDUSTRIES, INC., P.O.BOX 100, HILLBURN, NY 10931

VENTURA GRAIN CO., INC., 148 LONGMEADOW RD., TAUNTON, MA 02780

**VITAKRAFT PET PRODUCTS CO., INC., 12 E. CHIMNEY ROCK RD., BOUND BROOK,
NJ 08805**

WAGGING TAIL LTD., P.O.BOX 531, HOBOKEN, NJ 07030

WELLS PET FOOD CORP., 617 SOUTH D ST., MONMOUTH, IL 61462

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEE</u>	<u>ANALYZED</u>	<u>DEFICIENT</u>
	Protein	Fat	Fiber
<u>ABADY, ROBERT DOG FOOD CO.</u>			
Abady Maintenance Stress Formula	32-23-1	1	0
<u>AGWAY, INC.</u>			
Economy Wild Bird Blend	9.5-2.0-6.0	1	0
Country Feeds Egg Layer Bits	18.0-3.0-4.0	6	0
Country Feeds Turkey Grower Bits	21.0-3.0-4.0	1	0
16 Rabbit Growth	16.0-1.5-17.0	2	0
AG Calf Crunch	18.0-2.5-7.0	1	0
Complete Calf II	12.0-2.0-22.0	1	0
Milk Right 16 for Ruminants	16.0-2.5-12.0	5	0
Pro Lean 16% S & P	16.0-3.0-5.0	1	0
Crunchy Pro Right 16	16.0-3.0-7.0	3	0
Super Fit-N-Fresh 13	13.0-3.0-8.5	2	0
Country Feeds 12% Recreational Horse Pellets	12.0-3.5-8.0	4	0
Champion	14.0-2.5-7.0	3	1
Calf Starter 18% (Medicated)	18.0-3.5-7.0	1	1
Dairy Balancer Plus 20	20.0-3.0-7.0	1	0
Dairy Balancer Plus 16	16.0-3.0-7.0	1	0
Calf-Pre-Starter 20	20.0-3.5-7.0	1	0
Pro Lean 14% Hog Feed T20	14.0-3.0-5.0	2	0
Chick Cracked Corn	8.0-1.5-5.0	2	0
Country Feeds Crimped Oats	11.0-4.0-13.0	3	0
Country Feeds Game/Turkey Finish/Maintenance	16.0-2.5-4.0	1	0
Country Feeds Game/Turkey Grower	21.0-3.0-4.0	4	0
Country Feeds Egg Layer Pellet	18.0-3.0-4.0	4	0
Gro-Right Complete Calf I (Medicated)	15.0-2.0-23.0	6	0
Ration Right 20 for Ruminants	20.0-3.0-7.0	3	0
Ration Right 16 for Ruminants	16.0-3.0-7.0	3	0
Country Feeds Sheep	14.0-2.0-18.0	2	0
Country Feeder Hog Pellets	15.0-3.0-5.5	1	0
Country Feeds Performance Horses 12% Pellets	12.0-3.0-20	1	0
Country Feeds Egg Layer Shorties	18.0-3.0-4.0	1	0

MANUFACTURER & BRAND**GUARANTEE****ANALYZED****DEFICIENT****Protein****Fat****Fiber****AGWAY, INC.**

Cracked Corn	7.0-3.0-5.0	1	0
Country Feeds Broiler Maker (Medicated)	21.0-3.0-4.0	1	0
Country Feeds Turkey Starter (Medicated)	28.0-3.0-4.0	1	0
Country Feeds Performance Horse 12% Protein Pellets	12.0-4.0-10.0	2	0
Pro 14% Hog Feed (Medicated)	14.0-3.0-5.0	2	0
Country Feeds Recreational Horse Complete Pellets	12.0-2.5-20.0	1	0
Country Feeds Chick Starter (Medicated)	18.0-3.0-4.0	1	0
Country Feeds Egg Layer Mash	18.0-3.0-4.0	1	0
Country Feeds Recreational Horse Textured Feed	12.0-3.0-7.5	1	0
Country Feeds Recreational Horse 14% Pellets	14.0-3.5-8.0	1	0
Country Feeds Recreational Horse 10% Textured	10.0-3.0-7.5	1	0
Country Feeds Recreational Horse 12% Pellets	12.0-2.5-20.0	1	0
Turkey Grower Crumbles (Medicated)	21.0-3.0-4.5	1	0
Pro Lean 42% Hog Concentrate Pellets	42.0-2.0-5.0	2	1
Country Fresh Chicken Grower (Medicated)	14.5-3.0-4.0	1	0
Early Market Lamb Pellets	14.0-2.0-18.0	1	0
Pro Lean Squealer Pellets (Medicated)	18.0-4.0-3.0		
Pro Lean 16 Pig * Sow T40	16.0-3.0-5.0	1	0

ALPO PET FOODS, INC.

Alpo-Lamb Chunks Dinner	9.0-6.0-1.0	1	0
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BLUE SEAL FEEDS, INC.

Breeder Pellets	17.0-8.0-3.5	1	1
Vintage Senior	14.5-4.5-12.0	1	0
Trotter Horse Ration Pellets	14.0-2.0-20.0	6	0
Coarse 14	14.0-3.0-8.0	1	1
Pig & Sow Pellets	15.0-3.0-7.0	5	0
Fat & Finish Pellets	18.0-4.5-3.5	3	1
Rider Horse Feed	12.0-2.5-9.0	3	0
Strider Horse Feed Pellets	11.0-2.5-7.0	5	0
Layer Pellets	15.0-3.0-4.0	3	0

MANUFACTURER & BRAND**GUARANTEE****ANALYZED****DEFICIENT**

Protein

Fat

Fiber

BLUE SEAL FEEDS, INC.

Hutch Plus 18 Rabbit Pellets	18.0-3.0-15.0	3	0
Calf BT Starter	19.0-3.0-8.0	1	0
Blue Seal Feeds	16.0-6.5-6.5	1	0
Kat Kare	30.0-11.0-3.5	1	0
Blue Krunchies Dog Food	21.0-8.0-4.0	1	0
Natural "26"	26.0-10.0-4.0	1	0
Nip 'N Tuck Dog Food	18.0-6.0-7.0	1	0
Sweet Crimped Oats	10.0-3.0-12.0	2	0
Kat Krunchies	30.0-11.0-4.0	1	0
Lamb Finisher Pellets	15.0-2.5-7.0	3	0
Lamb Starter Grower Pellets	18.0-2.5-7.0	3	0
Energizer 20 Dairy Pellets	20.0-2.5-5.5	2	0
E-Z Pellets Vitamin E/Z Inpro 100	18.0-2.5-7.0	2	0
Contender Horse Feed Pellets	16.0-3.0-7.5	3	0
Soybean Meal	48.0-0.5-3.5	1	0
Steam Crimped Oats	10.0-3.0-12.0	1	0
Bunny 16 Pellets	16.0-2.5-18	1	0
Hi Pro 20 Rabbit Pellets	20.0-2.5-12.0	2	0
Scratch Feed Wild Bird	9.0-2.5-5.0	2	0
Turkey Grower Pellets (Medicated)	20.0-4.5-4.0	1	0
Turkey Grower Pellets	20.0-4.5-4.0	2	0
Broiler Crumbles CB (Medicated)	21.0-6.5-3.0	2	0
Grower Cal Pellets	15.0-3.0-4.0	1	0
Energizer 16 Dairy Pellets	16.0-2.5-5.5	1	0
Pork Maker Mash	13.0-3.5-7.0	1	0
Demand Horse Pellets/Hi Fat	16.0-6.5-6.5	2	0
Lamb BT Pellets (Medicated)	18.0-2.5-7.0	1	0
Turkey/Game Bird Starter Crumbles (Medicated)	28.0-4.5-4.0	1	1
Coarse 16	16.0-3.0-8.0	2	0
Charger	14.0-2.0-12.0	2	0
Pacer	12.0-2.5-9.0	2	0
Grower Cal-AM (Medicated)	15.0-3.0-4.0	1	0
Chick Starter AM (Medicated)	20.0-3.0-4.0	1	0
Rebound Horse Feed	12.5-2.0-12.0	1	0
Race Horse Oats	10.0-3.5-12.0	1	0
Milk Maker 16 Dairy Pellets	16.0-2.0-10.0	2	0
Coarse 20	20.0-3.0-8.0	1	0

MANUFACTURER & BRAND**GUARANTEE****ANALYZED****DEFICIENT****Protein****Fat****Fiber****BLUE SEAL FEEDS, INC.**

Vintage Gold	16.0-7.5-7.0	1	0
Stampede	18.0-2.5-9.0	1	0
Llama Pellets	14.0-2.5-12.5	1	0
Caprine Challenger	18.0-3.0-7.0	1	0
Shephard 16	16.0-2.0-10.0	1	0
Sunshine Plus	25.0-2.0-4.0	1	0

BREEDERS CHOICE PET FOODS

Breeders Choice Avo A/R for Dogs	9.0-4.0-1.0	1	0
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BROWN'S, F M, SONS, INC.

Rabbit Food Nutrition Plus	17.0-2.0-16.0	1	0
Garden Veggies for Parakeets	13.0-5.0-10.0	1	0

EAGLE PRODUCTS, INC.

Hy-Ration Protein Dog Food	27.0-12.0-4.5	1	0
Hy-Ration Puppy Food	27.0-9.0-5.0	1	0

EIGHT IN ONE PRODUCTS, INC.

Ultra Blend Cockateel Fruit 'N Seed	10.5-12.0-11.0	1	0
Ultra Blend Parakeet Nestling A503	14.0-6.5-6.0	1	0
Parakeet Honey Treat	12.0-10.5-6.5	1	1
Kitty Bits Cat Treats	19.0-9.0-1.5	1	0

FEDERAL FODDS, INC.

Fromm Lite Dog Food	18.0-8.0-4.0	1	0
Fromm Puppy Food	26.0-12.0-4.0	1	0
Fromm Performance Dog Food	26.0-18.0-3.5	1	1

MANUFACTURER & BRAND**GUARANTEE****ANALYZED DEFICIENT****Protein****Fat****Fiber****FRISKIES PETCARE PRODUCTS**

Cat Food/Beef & Liver Flavor	31.0-8.0-4.5	1	0
Mighty Dog Beef & Bacon for Dogs & Pups	10.0-6.0-1.0	1	0
Cat Food/Ocean Fish Flavor	31.0-8.0-4.5	1	0
Chef's Blend	30.0-8.0-4.5	1	0

HILL'S PET PRODUCTS

Science Diet Canine Performamce	27.0-23.0-4.0	1	0
Science Diet Canine Maintenance	22.0-13.0-3.0	1	0
Science Diet Feline Maintenance	30.0-20.0-2.0	2	0
Science Diet Natural Formula	15.8-8.5-2.5	1	0
Science Diet Canine Growth	8.0-5.0-1.0	1	0

IAMS COMPANY

Eukanuba Original Food for Dogs	30.0-20.0-4.0	1	0
Cat Food for Normally Active Cats	32.0-21.0-3.0	1	0
Chicken Formula for Dogs	9.0-6.0-1.0	2	0
Puppy Food	28.0-17.0-4.0	2	2

KAYTEE PRODUCTS, INC.

Fortified diet Extra Rabbit Food	17.0-3.5-17.0	1	0
Fiesta for Guinea Pigs	16.0-6.0-14.0	1	1
Orange Blossom Honey Parakeet	13.0-8.0-10.0	1	0

KELLY FOODS CORPORATION

Bil-Jac Select Dog Food	27.0-17.0-4.0	3	0
Bil-Jac Liver Treats for Dogs	25.0-10.0-2.0	1	0
Bil-Jac Lite Dog Food	17.0-10.0-5.0	1	0

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEE</u>	<u>ANALYZED</u>	<u>DEFICIENT</u>
	Protein	Fat	Fiber
<u>L/M ANIMAL FARMS</u>			
Vita-Conditioner for Parakeets	14.5-7.0-7.3	1	0
Perfect Pelleted Maintenance Diet for Parakeets	14.5-4.0-4.0	1	0
Fruit Cockail for Cockatails	13.5-4.0-7.2	1	0
<u>MANNA PRO CORPORATION</u>			
Manna Pro Calf Manna	25.0-3.0-6.0	2	0
<u>NATURE'S RECEIPE PET PRODUCTS</u>			
Original Nature's Recipe Maintenance Lamb	20.0-10.0-4.0	1	0
Maintenance Lamb Meal & Rice Canine	20.0-10.0-4.4	1	0
Nature's Recipe Vegetarian Canine	18.0-8.0-4.4	1	1
<u>NATURAL LIFE PET PRODUCTS, INC.</u>			
Lamaderm Feline Formula	28.0-13.0-3.0	1	1
<u>NUTRO PRODUCTS, INC.</u>			
Nutro Max Special for Senior LS Act	16.0-8.0-4.5	1	0
Natural Choice Lamb/Rice Dog Food	8.5-8.0-1.0	1	0
Natural Choice Cat Adult Cat Food	30.0-14.0-2.0	1	0
Max-Kibble Dog Food	26.0-16.0-4.0	1	0
Natural Choice Lamb Meal/RCE	21.0-12.0-5.0	1	0

MANUFACTURER & BRAND**GUARANTEE****ANALYZED****DEFICIENT****Protein****Fat****Fiber****NUTRENA FEED DIVISION OF CARGILL**

Egg Producer Meal	16.0-3.0-4.5	3	1
Gold Flake Calf Starter	18.0-3.0-7.0	1	1
Vitality 12 Sweet Feed	12.0-3.0-6.0	4	0
Pellets Milk Plus	28.0-3.0-3.0	1	0
Vitality 14	14.0-3.0-6.0	1	0
Whole Corn	8.0-3.0-3.0	1	0
Whole Oats	10.0-3.0-11.0	1	0
Pig & Sow Feed	15.0-2.5-7.0	1	0
Fitting & Fresh A/P Feed	14.0-2.5-8.0	1	0
10% Rabbit Pellets	16.0-2.5-16.0	1	0
Vitality 14 Sweet Feed	14.0-3.0-7.0	2	0
Horse Kwik Ration	14.0-2.0-20.0	3	0
Vitality 14 Horse Feed Pellets	14.0-3.0-6.0	3	0
Top Lamb 16 Feed	16.0-2.0-10.0	1	0
16% Rabbit Pellets (Medicated)	16.0-2.5-18.0	1	1
Egg Producer Crumbles (Medicated)	16.0-3.0-4.5	1	0
Pig & Hog Feed (Medicated)	15.0-2.5-7.0	3	0
Horse Kwik Ration W/Rough Pellets (Medicated)	14.0-2.0-20.0	2	0
Excel 16 Dairy Feed (Medicated)	16.0-2.5-10.0	2	0
Turkey Gamebird Grower Crumbles (Medicated)	22.0-3.0-6.0	2	0
Turkey Gamebird Finisher (Medicated)	15.0-3.0-8.0	2	0
Poultry Feed Egg Producer Crumble	16.0-3.0-4.5	1	0
Egg Producer B Pellets	16.0-3.0-4.5	3	0
Cracked Corn	8.0-3.0-3.0	3	0
Rabbit Pellets	16.0-2.5-18.0	1	0
Triumph 12 Horse Pellets	12.0-2.5-10.0	1	0
Top Goat 17 Sweetfeed (Medicated)	17.0-3.0-7.0	1	0
Triumph 10 Sweet Feed (Medicated)	10.0-2.5-12.0	1	0
Triumph 12 Horse Feed	12.0-2.5-13.0	2	0
Vitality Prize Horse Feed	12.5-2.5-12.0	2	0
Vitality 16 Sweet Feed (Medicated)	16.0-3.0-6.0	1	0
Triumph 14 Horse Feed	14.0-2.5-12.5	2	0
Vitality 14 Sweet Feed (Medicated)	14.0-3.0-7.0	1	0
Triumph 12 Horse Pellets (Medicated)	14.0-3.0-6.0	1	1
Turkey Gamebird Grower Crumbles	22.0-3.0-6.0	1	0
Mc Allister Custom 17%-RP	17.0-2.5-19.0	1	1

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEE</u>		<u>ANALYZED</u>	<u>DEFICIENT</u>
	Protein	Fat	Fiber	
<u>OHIO BLENDERS, INC.</u>				
Big Ohio 17% Dehydrated Alfalfa	17.0-1.5-27.0		1	0
<u>OLD MOTHER HUBBARD DOG FOOD CO., INC.</u>				
O-M-H P-Nuttier Cookies	24.0-7.0-3.0		1	1
O-M-H Crunch Bars Medium W/Liver	23.0-6.0-2.0		1	0
O-M-H Biscuits for Dogs - Beef Large	24.0-7.0-3.0		1	0
O-M-H Beef Fornula Dog Food	10.0-5.0-1.0		1	0
O-M-H Adult Dog Food Chicken/Lamb	26.0-15.0-3.5		1	0
O-M-H Kibbled Biscuits Dog Food	26.0-8.0-4.0		1	0
NEURA Dog Food Fresh Lamb Formula	24.0-11.0-4.0		1	0
<u>OLD WEST PET TREATS</u>				
The Bone Ranger's Snooters/Pork for Dogs	50.0-15.0-3.0		1	0
<u>O.S.I. MARINE LAB. INC.</u>				
O.S.I. Freshwater Aquarium Flake Food	47.0-5.0-5.0		1	1
<u>PALMER GREEN, INC.</u>				
River Valley High Protein Dog Food	27.0-12.0-4.0		1	1
<u>PET PRODUCTS PLUS, INC.</u>				
Pro Mix Dog Food	21.0-8.0-5.0		3	0
Handler's Choice	27.0-10.0-4.0		1	0
Tail Wagger Dog Food	22.0-6.0-5.0		2	0
Wayne Puppy O's	28.0-12.0-3.5		1	1
Wayne Gold Label Dog Food	30.0-20.0-3.0		1	1
Kasco Hi-Energy Dog Food	30.0-20.0-2.5		1	0

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEE</u>	<u>ANALYZED</u>	<u>DEFICIENT</u>
	Protein	Fat	Fiber
<u>PET INTERNATIONAL</u>			
Tetra Min Flake Food for Tropical Fish	45.0-5.0-2.0	1	0
<u>PET SPECIALTIES, INC.</u>			
A-N-F Adult Plus Dog Food	25.0-15.0-3.5	1	0
<u>POULIN GRAIN, INC.</u>			
Poulin Textra 10% Dairy Feed	14.0-3.0-9.0	1	0
Poulin Textra 16% Dairy Feed	16.0-3.0-6.0	1	0
Turkey Gamebird Grower Finish Pellets	20.0-3.0-6.0	1	0
Poulin Lay Pellets	15.0-2.5-5.0	1	0
Maintenance 16 Rabbit Pellets	16.0-2.5-15.0	1	0
Poulin Pig Pellets	15.0-3.0-6.0	1	0
Poulin Complete Sheep Pellets	16.0-3.0-8.0	1	0
Poulin Ultra 18% Dairy Pellets	18.0-3.0-6.0	1	0
Poulin Quick Start	20.0-20.0-0.1	1	0
Poulin Calf Quick Starter	18.0-3.0-8.0	1	0
<u>PRO-PET, INC.</u>			
Big Red Producers Choice 15	15.0-2.0-18.0	1	0
Big Red High Energy Dog Food	26.0-11.0-5.0	2	0
Big Red Producer's Choice 18 Rabbit	18.0-2.0-15.0	1	0
Big Red Great Gravy Dog Food	21.0-8.0-5.5	1	0
Big Red Rabbit's Choice	15.0-2.0-18.0	2	0
Big Red Guinea Pig Food	18.0-4.0-15.0	1	0
Big Red Pardner Dog Food	26.0-6.0-5.5	2	1
Pro-Pet Performance	30.0-15.0-4.0	1	1
Big Red Nuggets	21.0-8.0-5.5	1	0
LiL' Red Original Flavor Cat Food	31.0-10.0-3.0	1	1
Big Red Puppy Food	28.0-12.0-5.0	1	0
LiL' Red Tuna Flavor Cat Dinner	31.0-13.0-3.0	2	0
Pro-Pet Lite Formula Dog Food	18.0-8.0-10.0	1	0
Big Red Dog Biscuits Large	24.0-7.0-3.0	1	1
Pardner PlusDog for Food Active Dogs	26.0-9.0-5.0	1	0
Buster Dog Food	18.0-6.0-5.0	1	0

MANUFACTURER & BRAND**GUARANTEE****ANALYZED DEFICIENT****Protein****Fat****Fiber****QUAKER OATS COMPANY**

Ken L Biskit	24.0-7.0-3.0	1	0
Ken-L-Ration Beef Flavor Snausages	20.0-7.0-1.5	1	0

PMI FEEDS, INC.

Mazuri Porcine Grower 5688	16.0-2.5-18.0	1	0
Omolene 100 for Active Pleasure Horses	10.0-3.5-6.0	1	0

PURINA MILLS, INC.

Purina Pride 200	14.0-2.5-8.0	1	0
Purina Game Bird 5440 Maintenance	12.5-2.5-10.0	2	0
Purina Game Bird Brider 5438 Layena	20.0-2.5-7.0	1	1
Purina Horse Chow #100 for Active Pleasure Horses	10.0-2.0-30.0	2	0
Purina Omolene 200	14.0-4.5-6.5	1	0
Laynea Checkers Pelleted Feed	16.0-2.5-7.0	1	0
Purina Horse Chow #200 Complete H F	14.0-2.0-25.0	1	0
Purina Complete Balanced Poultry Feed	20.0-3.0-5.0	1	0
Purina Start & Grow Poultry Feed	17.0-3.0-5.0	1	0

RALSTON PURINA COMPANY

Purina Special Care Formula Cat Chow	31.0-13.0-2.5	1	0
Purina Puppy Chow Growth Formula	27.0-9.0-5.0	1	0
Purina Bonz Steak Bone Shed. Dog Snack	11.0-5.0-4.0	1	0

MANUFACTURER & BRAND**GUARANTEE****ANALYZED DEFICIENT****Protein****Fat****Fiber****PET SPECIALTY ENTERPRISES - DIVISION OF RALSTON PURINA**

Purina Dealer's Pride for Adult Dogs	18.0-6.0-8.0	1	0
Pro Visions Pro Plan Adult Dog Food	25.0-15.0-3.0	2	0
Pro Plan Turkey/Barley Formula for Dogs	25.0-15.0-3.0	1	0
Pro-vision Pro Plan Cat Growth Formula	33.0-20.0-3.0	1	1

S & M PET FOOD (Triumph Pet Foods)

Cadet Whole/Broken Bone Dog Biscuits	20.0-4.0-3.0	1	0
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SODA & PET FOOD CITY, INC.

Dave's SPF 30/20 Hi Protein Feed for Dogs and Pups	26.0-13.0-4.0	1	0
Dave's SPF Less Active Dog Food	25.0-7.0-5.0	1	1
Dave's Premium Dog Food	27.0-16.0-3.5	1	0

SUNFLOWER, INC.

Feathered Friends Favorite Wild Bird	10.5-4.0-8.0	2	0
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TIZWHIZ DISTRIBUTOR, INC.

Triumph-Natural Dog Food	25.0-15.0-4.0	1	0
Tizwhiz-Complete Feed for Horses	16.0-2.5-6.0	1	0
Tizwhiz-High Energy for Mature Horses	12.0-2.5-6.0	1	0
Tizwhiz Broodmare	9.0-3.0-5.0	1	0
Tizwhiz 12 for Mature Horses	12.0-2.5-6.0	1	0

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEE</u>	<u>ANALYZED</u>	<u>DEFICIENT</u>
	Protein	Fat	Fiber
<u>TRIUMPH PET INDUSTRIES, INC.</u>			
Triumph Hi-Tor Beef/Lamb for dogs	11.0-6.5-1.0	1	0
Triumph Hi-Tor Dog Food	25.0-12.0-4.0	1	0
<u>VENTURA GRAIN CO., INC.</u>			
Every Day Formula 1400 Horse Pellets	14.0-2.5-20.0	1	0
Every Day 20 Pig Starter (Medicated)	20.0-3.5-4.5	1	0
Every Day Formula 1100 Horse Pellets	11.0-3.0-8.0	1	0
Every Day Hog Feed	14.0-3.5-5.0	1	0
Every Day Rabbit Pellets	17.0-3.0-18.0	1	0
Every Day 20% Game Bird Crumbles	20.0-3.5-4.5	1	0
Every Day 16% Dairy Feed	16.0-3.5-9.0	1	0
Every Day Complete Layer 16	16.0-3.0-4.5	1	0
Every Day Turkey Finisher 17% Pellet	17.0-5.0-4.5	1	0
<u>VITAKRAFT PET PRODUCTS, INC.</u>			
Vitakraft Nibble Rings for Small Animals	12.6-2.7-11.6	1	0
<u>WAGGING TAIL, LTD.</u>			
Max's Dog Snacks B/C/B	22.0-3.0-5.0		
<u>WELLS PET FOOD CORPORATION</u>			
Splash 26% Fish Food	26.0-3.0-7.0	1	0

DEFICIENCY REPORT

MANUFACTURER & BRAND

GUARANTEE-%

ACTURAL-%

ABADY, ROBERT DOG FOOD CO

Abady Maintenance Stress Formula	32.0-23.0-1.00	***37.20-27.20-0.60
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AGWAY, INC.

Pro Lean 42% Hog	42.0-2.0-5.0	**38.88-2.40-2.60
Calf Starter 18% (Med.)	18.0-3.5-7.0	**16.95-4.20-5.20
Agway Champion	14.0-2.5-7.0	**12.46-3.10-5.10
Country Fresh Chicken Grower (Med.)	14.5-3.0-4.0	***21.95-2.90-2.70

BLUE SEAL FEEDS, INC.

Turkey/Game Bird Starter Crumbles (Med.)	28.0-4.5-4.0	28.97-***3.40-2.90
Fat and Finish Pellets	18.0-4.5-3.5	**16.78-4.60-2.30
Breeder Pellets	17.0-8.0-3.5	17.40-***3.30-2.10
Bule Seal Charger	14.0-2.0-12.0	***19.90-3.10-6.80
Sweet Crimped Oats	10.0-3.0-2.0	11.15-4.00-***10.70

EIGHT IN ONE PET PRODUCTS

8 In 1 Kitty bits Cat Treats	19.0-9.0-1.5	***24.90-10.00-1.10
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FEDERAL FOODS, INC.

Fromm Performance Dog Food	26.0-18.0-3.5	27.26-***14.60-2.70
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THE IAMS COMPANY

Iams Puppy Food	28.0-17.0-4.0	30.48-***13.90-1.50
Iams Puppy Food	28.0-17.0-4.0	29.09-***14.30-1.90

MANUFACTURER & BRAND**GUARANTEE %****ACTURAL %****KAYTEE PRODUCTS, INC.**

Kaytee Fiesta for Guinea Pigs

16.0-6.0-14.0

18.60-~~**4.60~~-9.60**KELLY FOODS CORPORATION**

Bil Jac Select Dog Food

27.0-17.0-4.0

~~***30.30~~17.10-2.40**NATURE'S RECIPE PET FOODS, INC.**

Nature's Recipe Vegetarian Canine

18.0-8.0-4.4

20.34-~~**6.30~~-1.10**NATURAL LIFE PET PRODUCTS, INC.**

Lamaderm Feline Formula

28.0-13.0-3.0

~~**24.31~~-12.50-3.70**NUTRO PRODUCTS, INC.**

Max Special for Senior Less Active dog food

16.0-8.0-4.5

~~***19.89~~-7.10-4.40**NUTRENA FEED DIVISION**

Nutrena Egg Producer Meal

16.0-3.0-4.5

~~**14.32~~-4.0-4.30

Nutrena Gold Flake Calf Starter

18.0-3.0-7.0

~~**16.85~~-2.80-5.20

Nutrena 16% Rabbit Pellets (Med.)

16.0-2.5-18.0

~~**14.80~~-3.70-15.00

Nutrena Triumph 12 Horse Pellets (Med.)

14.0-3.0-6.0

~~**11.92~~-3.33-2.20

Nutrena McAllister Custom 17% (Med.)

17.0-2.5-19.0

~~**15.01~~-2.65-17.30

Nutrena Triumph 10 Sweet Feed (Med.)

10.0-2.50-12.0

~~***14.88~~-3.48-7.40

MANUFACTURER & BRAND**GUARANTEE %****ACTURAL %****OLD MOTHER HUBBARD DOG FOOD CO., INC.****OMH P-Nuttier Cookies****24.0-7.0-3.0******21.31-12.60-1.20****O.S.I. MARINE LAB, INC.****Freshwater Aquarium Flake Food****47.0-5.0-5.0******44.37-7.10-0.00****PALMER GREEN, INC.****River Valley High Protein Dog Food****27.0-12.0-4.0****27.50-**10.80-3.20****PET PRODUCTS PLUS, INC.****Wayne Puppy O's****28.0-12.0-3.5****29.60-**11.00-1.70****PET INTERNATIONAL****Tetra Min Flake Food for Tropical Fish 45.0-5.0-2.0*******50.21-5.60-1.20****PRO-PET, INC.****Pardner Dog Food****26.0-6.0-5.5******23.27-6.40-4.72****Pro-Pet Performance****30.0-15.0-4.0******28.91-15.40-2.42****LIL' Red Original Flavor Cat Food****31.0-10.0-3.0****31.21-**8.10-2.10****PURINA MILLS, INC.****Purina Game Bird Brider 5438 Layna****20.0-2.5-7.0******18.62-3.70-4.20****Purina Horse Chow****10.0-2.0-30.0*******13.27-2.40-13.50**

MANUFACTURER & BRAND**GUARANTEE %****ACTURAL %****PROVISIONS PET SPECIALTY ENTERPRISE/DIV OF RALSTON PURINA**

Provision Pro Plan Cat Growth Formula	33.0-20.0-3.0	***36.07-**16.50-1.50
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RALSTON PURINA CO.

Purina Bonz Steak Bone Shepard Dog Snack	11.0-5.0-4.0	***14.33-4.20-1.30
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SODA & PET FOOD CITY, INC.

Dave's SPF Less Active	25.0-7.0-5.0	25.80-**6.00-3.30
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TIZWHIZ DISTRIBUTOR, INC.

Triumph-Natural Dog Food	25.0-15.0-4.0	***28.95-14.80-3.40
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1993 FEED REGISTRATION

ABBA PRODUCTS CORP., P. O. Box 122, ELIZABETH, NJ 07207

ROBERT ABADY DOG FOOD CO. 201 SMITH ST. POUGKEEPSIE, N.Y. 12601

ADM Milling Co.,Tax Dept, P. O. Box 1470, Decatur, IL 62525

ADM Processing, Div. of Archer Daniels Midland Co., Tax Dept, P. O. Box 1470 Decatur, IL 62525

Agritek Bio Ingredients Corp., 1400 East Touhy Ave., Suite 215, Des Plains, IL 60018

Agway Inc, P. O. Box 4751, Syracuse, NY 13221

Agway Inc, P. O. Box 4741, Syracuse, NY 13221

Agway Inc, Country Foods Division P. O. Box 4746, Syracuse, NY 13221

- 1. Sunflower, Inc.**
- 2. Royal Wing, Inc.**
- 3. Pro Pet, Inc.**

Akzo Salt Co, Abington Executive Park, P. O. Box 352, Clarks Summit, PA 18411

Alpha Pet Inc, 4914 Dragett Ave., St. Louis, MO 63110

Allied Foods Inc, 1450 Hills Place NW, P. O. Box 93326, Atlanta, GA 30318

- 1. Stop & Shop**
- 2. Sun Glory**

Allied Signal, P. O. Box 1559, Hopewell, VA 23860

Alifet USA Inc., 9403 Kenwood Rd. C-107, Cincinnati, OH 45242

Almacs, Inc./Deep Run Packing Co., 431 Deep Run Rd., Dublin, PA 18917

Almacs Inc, 1 Noyes St, East Providence, RI 02916

Almacs, Inc./Hubbard Milling, 424 N. Riverfront Drive, Mankato, MN 56001

Alpo Petfoods Inc, P. O. Box 25100, Lehigh Valley, PA 18002

- 1. North Arkansas Wholesale Co.**

Alphen International, Inc., 5820 Kennedy Rd., Mississauga, Ontario, Canada L4Z 2C3

Alltech Inc., 3031 Catnip Hill Pike, Nicholasville, KY 40356

American Agco, 545 Hardman Ave., So. St. Paul, MN 55075

American Colloid Co, 1500 W. Shure Drive, Arlington Heights, IL 60004

American Crystal Sugar Co, 101 North Third St, Moorehead, MN 56560

American Cynamid Co, P. O. Box 400, Princeton, NJ 08543

American Health Kennels, 715 NE 40 Court, Oakland, FL 33334

American Reptile, Inc., 118 So. Main St., Dry Ridge, KY 41035

American Meat & Protein Corp., P. O. Box 645, Ames, IA 50010

American Pet Food, P. O. Box 1278, Red Bay, AL 35582

1. Sunshine Mills, Inc.

2. Chatham Pet Foods

American Stores Buying Co, Doane Products, P. O. Box 879, Joplin, MO 64802

American Superior Feeds, Inc., P. O. Box 2006, Ardmore, OK 73402

Amway Corp, 7575 East Fulton Rd, Ada, MI 49355

Ann Amaet Pet Foods, Inc., 41 Daniels Rd., Sellersville, PA 18960

Anheuser Busch Raw Material Dept, Busch Place, St. Louis, MO 63118

Anitox Corporation, 1855 Anitox Drive, P. O. Box 1929, Buford, GA 30518

Archer-Daniels-Midland Co, P. O. Box 1470, Decatur, IL 62525

Arlington Grain Co, 5 Depot Ave, Cranston, RI 02920

Arcadian Corporation, 6750 Poplar Ave, Suite 600, Memphis, TN 38138

Associated Ice Cream, P. O. Box 746, Westerville, OH 43081

Austin Pet Food Co, P. O. Box 1719, 80 Rogers St, Lowell, MA 01853

Audubon Park Co, 49 Main St, Drawer W, Akron, CO 80720

Aquatrol Inc, 237-H.N. Euclid Way, Anaheim, CA 92801

Aquatronics, 1620 Beacon Place, Oxnard, CA 93033

Aquarium Pharmaceuticals Inc, 50 S. Hamilton St, Chalfont, PA 18914

Avant Sales/Rolf C. Hagen Corp. 50 Hampden Rd., Mansfield, MA 02048

Basic Chemicals Group Feed Products, P. O. Box 809050, Dallas, TX 75380

Bay-Mor Pet Feeds, 55 N. Sillyman St, Cressona, PA 17929

Bay State Milling Co, 707 Grain Exchange, Minneapolis, MN 55415

Bayvet Division, Mileslabs Inc, P. O. Box 390, Shawnee Mission, KS 66201

BCA Products, P. O. Box 325, Sleepy Eye, MN 56085

Bee Smart Products, Div. of Farnum Corp., 301 W. Osborn Rd., Phoenix, AR 85013

Best Feeds & Farm Supplies, 106 Seminary Ave, Box 246, Oakdale, PA 15071

Welles L Bishop Co, 846 Old Colony Rd., P. O. Box 2023, Meridan, CT 06450

Big Bet/Deep Run Packing Co., 431 Deep Run Rd., Dublin, PA 18917

Bio Pet Inc. 12E Chimney Rock Rd. Bound Brook, NJ 08805

Bio Chemical, Inc., 17541 Blackfoot St., NW, Anoka, MN 55304

Bio Zyme Inc, 1231 Alabama St, St. Joseph, MO 64501

Bil- Jac Foods Inc, 2015 Granger Rd, Medina, OH 44256

Blue Ribbon Pet Products Inc, 75 Modular Ave, Commack, NY 11725

Blue Ridge Fish Hatchery Inc, 4536 Kernersville Rd, Kernersville, NC 27284

Blackstone Valley Vets Hospital, King St, Uxbridge, MA 01569

Balanced Energy Co, P. O. Box 0760, Clinton, IA 52733

Blue Seal Feeds Inc, P. O. Box 8, Lawrence, MA 01842

B.P. Chemical Co. P. O. Box 628, Lima OH 45802

Brand Marketing Corp./Hubbard Milling, P. O. Box 8500, Mankato, MN 56002
F.M. Brown's & Son, 205 Woodrow Ave, Sinking Spring, PA 19608
Booda Products Inc., 700 W. 190th, Gardena, CA 90248
Bruckman's, 179 S. Broadway, Lawrence, MA 01843
Buckeye Feed Mills, Inc., 330 E. Schultz St., Dalton, OH 44613
Bumble Bee Seafoods, P. O. Box 85362, San Diego, CA 92186
By Products Inc, P. O. Box 7411, Wilmington, DE 19803
Cadillac Pet Foods, 9130 Griffith Morgan Lane, Pennsauken, NJ 08110
Caldwell Supply Co Inc, 200 Kiwanis Blvd, P. O. Box T, Hazelton, PA 18201
Carl S. Akey Inc, P. O. Box 129, Lewisburg, OH 45338
Carni Ray Research, 60 So. Main St., East Granby, CT 06026
Cargill Inc, Molasses Div. 48, P. O. Box 9300, Minneapolis, MN 55440
Cargill Inc, Nutrena Feed Div., P. O. Box 9300, Dept. 14, Minneapolis, MN 55440
Cargill Inc, Processing Group, P. O. Box 9300, Dept. 5, Minneapolis, MN 55440
CBP Resources, Inc., Special Animal Div., 2410 Randolph Ave., Greensboro, NC 27406
Celex Corporation, 377 Amelia St, Plymouth, MI 48170
Central Connecticut Co-Op Farmers Assoc., Box V, Buckland Station, 10 Apel Place, Manchester, CT 06040
Central Tractor Farm & Family / Hubbard Milling, P. O. Box 8500, Mankato, MN 56002
Central Tractor Farm & Family / Doane Products Co, P. O. Box 879, Joplin, MO 64802
Central Tractor Farm & Family/Milk Specialties Co., P. O. Box 278, Dundee, IL 60118
Chatham Pet Foods, P. O. Box 705, Siler City, NC 27344
Chenango Valley Pet Food, 10 S. Main St, Shelburne, NY 13460
Church & Dwight Co, 469 North Harrison St, Princeton, NJ 08540

Circle K Industries, Inc., 25563 N. Gilmer Rd., Mundelein, IL 60060

Con-Agra Pet Products Co., 1 Central Park Plaza, Suite 700, Omaha, NE 68102

Con- Agra Pet Products Co., 2258 Darbytown Rd., Richmond, VA 23231

Conklin Co. Inc, 551 Valley Park Drive, Shakopee, MN 55379

Corn Products (CPC International, Inc.) P. O. Box 347, Summit, Argo, IL 60501

Corn Sweeteners, Div. of ADM Tax Dept., P. O. Box 1470, Decatur, IL 62525

Cosby Hodges Co., Doane Products Co., P. O. Box 879, Joplin, MO 64802

C & S Products Co. Inc, Box 848, Fort Dodge, IA 50501

Cosmic Pet Products, 133 South Burhams Blvd., Hagarstown, MD 21740

Cyanamid Agriculture de Puerto Rico Inc., P. O. Box 243, Manati, Puerto Rico 00701

Cyto-Zyme Labs, 134 South 700 West, Salt Lake City, UT 84104

Dad's Products, Inc., P. O. Box 451, Mill & Clay St., Meadville, PA 16335

DDI Pharmaceuticals Inc, 518 Logue Ave, Mountain View, CA 94043

Darby Creek Ag Enterprises, Inc., 110 So. Mill St., Milford Ctr., OH 43045

D & D Commodities Ltd., Highway 75 South, P. O. Box 359, Stephen, MN 56757

Deep Run Packing Co. Inc, 431 Deep Run Rd, Dublin, PA 18917

- 1. Shop 'N Save**
- 2. Almacs**
- 3. Finast**
- 4. Star Market**
- 5. Big Bet**
- 6. Sweet Life**

DeMoules Supermarkets 875 East St, Tewksbury, MA 01876

Derby Feed Enterprises Corp., 4-8 Caroline St., Derby, CT 06418

Diamond Feeds, P. O. Box 156, Meta, MI 65058

Diamond V. Mills Inc, P. O. Box 74570, Cedar Rapids, IA 52407

Distributors Processing Inc, 17656 Ave. 168, Portersville, CA 93257

Doane Products Co., P. O. Box 879, Joplin, MO 64802

- 1. North Arkansas Wholesale Co.**
- 2. The Price Chopper**
- 3. Stop & Shop**
- 4. Purity Supreme**
- 5. Pace Membership Warehouse**
- 6. Kingston Marketing Co.**
- 7. Hannaford Brothers Co. Shop 'N Save**
- 8. DPC Corporation, MO**
- 9. DPC Corporation, AL**
- 10. Central Tractor Farm & Supply**
- 11. American Store Buying Co.**

Dog Gon' Good Pet Food Co, 80 Roger's St, Lowell, MA 01853

Domain Inc, 201 N. Knowles Ave, P. O. Box 248, New Richmond, WI 54017

Dow Chemical Co, P. O. Box 1706, Midland, MI 48640

DPC Corporation, Doane Products, P. O. Box 879, Joplin, MO 64802

Earth City Resources Inc. P. O. Box 66812 St. Louis, MO 63166-6812

Eagle Products Inc., 1025 W. 11th St., Mishawaka, IN 46544

Early Time Distillery Co., P. O. Box 1105, Louisville, KY 40201

Easy Gardener, Inc., 3016 Mary St., Waco, TX 76702

Eastman Gelatin Corp., 227 Washington St, Peabody, MA 01960

Eight-in-One Pet Food Products Inc, 2100 Pacific St, Hauppauge, NY 11788

Elanco Animal Health Products Co./Eli Lilly Co., P. O. Box 708, Greenfield, IN 46140

Engelhard Corporation, 600 East McDowell Rd., Jackson, MS 39204

Equine Nutri-Science L.P., 60 South Main St. P. O. Box 1776, East Granby, CT 06026

John Ewing Co., 401 North First St., LaSalle, CO 80645

Famous Fido's Specialty Foods, Inc., 1533 W. Devon Ave., Chicago, IL 60660

FMC Industrial Chemical Group Corporation, 1735 Market St., Philadelphia, PA 19103

Federated Foods, Inc., 3025 W. Salt Creek Drive, Arlington Heights, IL 60005

Federated Foods, Inc./Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Federal Foods, Inc., 13145 N. Green Bay Rd., P. O. Box 365, Mequon, WI 53092

Feed Flavors, 265 Alice St., Wheeling, IL 60090

Fermanta Animal Health Co., 15th & Oak Sts., P. O. Box 338, Elwood, KS 66024

Finst/ Deep Run Packing Co., 431 Deep Run Rd., Dublin, PA 18917

First National Supermarkets, Inc./Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

First In Show, Inc., 4301 Canal Ave., Grandville, MI 49418

Finnsugar Bio Chemicals, Inc., 1400 North Meacham Rd., Schaumburg, IL 60173

Food Center, 312 Boston Rd., N. Billerica, MA 01862

Foodhold U.S.A. Inc./Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Fort Dodge Laboratories, 800 5th St., N.W., P. O. Box 518, Fort Dodge, IA 50501

Four Paws Products, Ltd., Wireless Blvd., Hauppauge, NY 11788

Florida Marine Resarch, 1530 Mango Ave., Sarasota, FL 34237

Friskies Petcare, 800 N. Brand Blvd., Glendale, CA 91203

- 1. Center Animal Nutrition**
- 2. Bolton**
- 3. Agway, Inc.**
- 4. Sweet Life**

Fritz Pet Products, 230 Sam Houston Rd., Mesquite, TX 75149

General Mills, Inc., P. O. Box 15003, Minneapolis, MN 55415

Ginger Products Co., 4851 Stickney Ave., Toledo, OH 43612

Gimborn U. S., 4280 Northeast Expressway Atlanta, GA 30340

Glendale Foods/Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Glendale Foods/Heinz Pet Products, One River Front Place, Newport, KY 41071

Golden Cat Corporation, P. O. Box 16, South Bend, IN 46624

Grain Processing Corporation, 1600 Oregon St., Muscatine, IA 52761

Grand Union Co./Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Grand Union Co./Heinz Pet Products, One River Front Place, Newport, KY 41071

Great A&P Tea Co., Inc./Heinz Pet Products, One River Front Place, Newport, KY 41071

Group One Food Marketing/Hubbard Milling Co., P. O. Box 8500, Mankato, MN 56002

Hagan, Rolf C., USA Corporation, 50 Hampden Rd., Mansfield, MA 02048

1. Avant Sales

Hannaford Bros. Co./Doane Products, P. O. Box 879, Joplin, MO 64802

Hartz Mountain Corporation, 700 Frank E. Rogers Blvd., South Harrison, NJ 07029

Health Valley Natural Foods, 16100 Foothill Blvd., Irwindale, CA 91706

Heartland Lysine, Inc., 8430 W. Bryn Mawr Ave., Chicago, IL 60631

Heath Manufacturing Co., 140 Mill St., Coopersville, MI 49404

Heinhold Feeds Inc. P. O. Box 369, 207 E. Mentor St. Kouts, IN 46347

Hereford Bi-Products, Inc., P. O. Box 2257, Hereford, TX 79045

Heinz Pet Products, One River Front Place, Newport, KY 41071

- 1. Glendale Foods, Inc.**
- 2. Grand Union Co.**
- 3. A & P**
- 4. IGA, Inc.**
- 5. Star Market**
- 6. Stop & Shop**
- 7. Wal-Mart Stores**
- 8. Western Family Foods, Inc.**

Hikari Sales USA, Inc., 2804 McCone Ave., Hayward, CA 94545

Hill's Pet Products, P. O. Box 148, Topeka, KS 66601

Hoechst-Roussel Agri-Vet Co., P. O. Box 2500, Somerville, NJ 08876

Hoffman La Roche, Inc., Kingsland St., Building 787, Nutley, NJ 07110

Horse Health Products, Inc., 1201 Douglas Ave., Kansas City, KS 66103

Hubbard Milling Co., P. O. Box 8500, Mankato, MN 56002

- 1. Almacs, Inc.**
- 2. Brand Marketing Corp.**
- 3. Central Tractor Farm & Supply**
- 4. Federated Foods, Inc.**
- 5. First National Supermarkets**
- 6. Foodhold U.S.A. Inc.**
- 7. Glendale Foods, Inc.**
- 8. Grand Union Co.**
- 9. Group One Food Marketing**
- 10. IGA Inc.**
- 11. Pet Products Plus**
- 12. Price Chopper Inc.**
- 13. Shaw's Supermarket**
- 14. Stop & Shop**
- 15. Sunfish, Inc.**
- 16. Super Markets General Corp.**
- 17. Sweet Life Foods**
- 18. Thorofare Marketing**
- 19. W. J. Jernison Co.**
- 20. Wakefern Food Corp.**
- 21. Wal-Mart Stores**

IBA, Inc., Animal Health Division, 27 Providence Rd., Millbury, MA 01527

ICI Americas, Inc., Concord Pike & New Murphy Rd., Wilmington, DE 19897

IAMS Co., P. O. Box 189, Lewisburg, OH 45338

Illinois Cereal Mill's, 1730 W. Michigan St., Indianapolis, IN 46222

IGA, Inc./Heinz Pet Products, One River Front Place, Newport, KY 41071

IGA, Inc./Hubbard Milling, P. O. Box 8500, Mankato, MN 56001

Impro Products, Inc., 2 Allamakee St., Waukon, IA 52172

International Agra, Inc., 8500 Pillsbury Ave., South Minneapolis, MN 55420

International Stock Food Corp., P. O. Box 29, 533 Broad St., Waverly, NY 14892

I. S. Joseph Co., Inc., 777 Grain Exchange Building, Minneapolis, MN 55415

Joy's Import and Export, P. O. Box 1055, Boston, MA 02205

JRB Foods, Inc., 911 Graham Rd., #45-283, Cuyahoga Falls, OH 44221

Jennison, W. J., Co./Hubbard Milling, P. O. box 8500, Mankato, MN 55415

Judee K's Crazy Corn, 7621 Fulton Ave., N. Hollywood, CA 91605

Jungle Laboratories Corp., P. O. Box 630, Cibolo, TX 78108

J & J Agri-Products & Services, Inc., 220 So. 2nd St., Dillsburg, PA 17019

K & L Feed Mill Corporation, Box 52, Route 32, Franklin, CT 06254

Kal Kan Foods, Inc., 3250 East 44th St., Vernon, CA 90058

Kaytee Products, Inc., 292 East Grand St., Chilton, WI 53014

Kellogg, Inc., 322 East Florida St., Milwaukee, WI 53201

Kelly Foods, Corporation, 10313 Old Oceanic City Blvd., Berlin, MD 21811

KenVet, Div. of Hess & Clark, 7th & Orange Sts., Ashland, OH 44805

K-Mart Corporation, Alpo Pet Food/ P. O. Box 25100 Lehigh Valley, PA 18001

Keynote Marketing Co./Doane Products, P. O. Box 879, Joplin, MO 64802

Kingston Marketing Co./Doane Products, P. O. Box 879, Joplin, MO 64802

Lacrosse Milling Co., Div. of Terson Co., P. O. Box 86, Cochrane, WI 54622

Lafeber Company, RR #2, Odell, IL 60460

Lambert Kay, P. O. Box 418, Half Acre Rd., Cranbury, NJ 08512

Land O'Lakes, Inc., Agricultural Services, 2827 8th Ave., So. Fort Dodge, IO 50501

Lakes Minnesota Macaws, Inc., 639 Styker Ave., St. Paul, MN 55107

Lauhoff Grain Co., P. O. Box 571, Danville, IL 61832

LBJ Pakke, Inc., P. O. Box 614, Waddington, NY 13694

L. Coffey, Ltd., 4244 Linden Hills Blvd., Minneapolis, MN 55415

Lick-Your-Chops, Inc., 50 Water St., Norwalk, CT 06854

Libner Corporation, 30 Great Hill Rd., Seymour, CT 06438

Liqnotech USA, Inc. 81 Holly Hill, Greenwich, CT 06830

L/M Animal Farms, 10279 St., Route 132, Pleasant Plain, OH 45162

Lucerne Farms, P. O. Box 440, Mapleton, ME 04757

Maine Manna, Inc., County Rd., Route 22, Box 248, Gorham, ME 04038

Manna Pro Corporation, 2962 South Ceder Ave., Fresno, CA 93725

Maple Leaf Pet Foods, Inc., P. O. Box 761, Fort Lee, NJ 07024

Mardel Laboratories, Inc., 1958 Brandon Court, Glendale Heights, IL 60139

Marion Zoological, Inc., 113 N. First St., Marion, KS 66861

Marine Enterprises, Inc., 8800 AKelso Drive, Baltimore, MD 21221

Martha White Foods, P. O. Box 58, Nashville, TN 37202

Martin Maritta Magnesia Specialies, Inc. Executive Plaza, Hunt Valley, MD 21030

Martins Feed Mills, Inc., P. O. Box 46, New Paris, IN 46553

Martins Feed Mills, Ltd., 2 Arthur St., P. O. Box 130, Elmira Ontario, N3B 3A2 Canada

Marschall Products, Miles Labs, P. O. Box 592, Madison, WI 53711

Menu Foods, Inc., 9130 Griffith Morgan Lane, Pennsauken, NJ 08110

Menu Foods, Ltd., 8 Falconer Drive, Streetsville, Ontario, L5M 2C1 Canada

- 1. Shaw's Supermarket**
- 2. Presidents Choice Gourmet**
- 3. National Brand**
- 4. Stop & Shop**
- 5. Finast--Premium Gourmet**

Merck & Co., Inc., P. O. Box 2000, Rahway, NJ 07065

Merricks, P. O. Box 99, Union Center, WI 53962

Metz Farms, 146 Monroe Center NW, Suite 1303, Grand Rapids, MI 49503

Midwestern Pet Foods/Wells Pet Foods/ 9634 Hedden Rd., Evansville, IN 47711
Milk Specialties Co., P. O. Box 278, Water & Illinois Sts., Dundee, IL 60118
Miles, Inc./Ag Div./Animal Health, P. O. Box 390, Ahawnee Mission, KS 66201
Morton Salt Co., 100 N. Riverside Plaza, Chicago, IL 60606
Monitor Sugar, Inc., 2600 South Euclid Ave., Bay City, MI 48706
Monsanto Agri-Co., N. Lindberg Blvd., St. Louis, MO 63167
Montana Pride, P. O. Box 509, Dillon, MT 59725
Moyer & Son, Inc., Scarlett Co., 113 E. Reliance Rd., Box 395, Souderton, PA 18964
Moore-Clark Co., Inc., P. O. Box 428, St. Andrews, N.B. Canada E0G 2X0
Nabisco Brands, Inc., 7 Sylvan Way, Parsippany, NJ 07054
Nabisco Brands, Inc., 2221 Front St., Toledo, OH 43603
National By-Products, Inc., P. O. Box 615, Des Moines, IA 50303
National Feeds of New England, P. O. Box 791, Merrimack, NH 03054
National Starch & Chemical Corp., 1515 So. Dover St., Indianapolis, IN 46221
Natural Life Pet Products, Inc., P. O. Box 943, Fronpenac, KS 66762
Nature's Recipe, 341 Bonnie Circle, Corona, CA 91720
New Energy Co. of Indiana, 3201 W. Clavert St., P. O. Box 2289, South Bend, IN 46680
New Southern Rocky Mount, Inc., P. O. Box 109, Rocky Mount, NC 27802
New England Feeds, 22 Kimball Place, Fitchbrug, MA 01420
North Arkansas Wholesale Co./Doane Products, P. O. 879, Joplin, MO 64802
North Arkansas Wholesale Co./Alpo Pet Products. P. O. Box 25100, Lehigh Valley, PA 18002
North American Chemcial Corp., 6950 West 56th St., Mission, KS 66202
North American Chemical Co., 8300 College Blvd., Overland Park, KS 66210

Novus International, Inc., 530 Maryville Center Dr., St. Louis, MO 63141

Novalek Inc., 2242 Davis Court, Haywood, CA 94545

Nutra Nugget Pet Food Co., P. O. Box 204, St. Thomas, MO 65076

Nutri Treat Ltd., 608 Jeffers Circle, Exton, PA 19341
1. Wagging Tail

Nutro Products, Inc., 445 Wilson Way, City of Industry, CA 91744

Occidental Chemical Corp. Agri Products Div., P. O. Box 809050, Dallas, TX 75380

Ohio Blenders, Inc., 2404 Summit St., Toledo, OH 43611

Ohio Pet Foods, Inc., Industrial Park Rd., Box 285, Lisbon, OH 44432

Old Mother Hubbard Dog Food Co., Inc., 80 Rogers St., P. O. Box 1411, Lowell, MA 01853 (Neura Brand)

Old West Pet Treats, 1226 North 11th Ave., Greeley, CO 80631

Opus, Inc., 24 William Way, P. O. Box 525, Bellingham, MA 02019

O.S.I. Marine Lab, Inc., 3550 Arden Rd., Hayward, CA 94545

Oyster Shell Products, P. O. Box 1255, Mobile, AL 36601

Pace Membership Warehouse/Doane products, P. O. Box 879, Joplin, MO 64802

Palmer Green, Inc., P. O. Box 326, Shippensburg, PA 17527

Pegasus America, Inc., P. O. Box 121, Glenview, IL 60025

Pet Supply Imports, Inc., 16975 Westview Ave., South Holland, IL 60473

Penn Pak, Inc., P. O. Box 290, Madison, GA 30650

Penn Plax, Inc., 720 Stewart Ave., Garden City, NY 11530

Pennwoods Equine Products, Inc., P. O. Box 385, Center Hall, PA 16828

Pet Ag-Inc., P. O. Box 396, Hampshire, IL 60140

Pet Guard, Inc., P. O. Box 728, 165 Industrial Loop S. #5, Orange Park, FL 32073

Pet Life Foods, Inc., 7628 Plaza Court, Willowbrook, IL 60521

Pet Products Plus, Inc., 1600 Heritage Landing, Suite 112, St. Charles, MO 63303

Pet Products Plus/Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Pet Nutritional Systems, P. O. Box 1289, Muskogee, OK 74402

Perky Pet Foods, Inc., 2201 South Wabash St., Denver, CO 80231

Phillips Petroleum Co., P. O. Box 13A4, Bottlesville, OK 74004

PM Ag Products Inc., 1055 W. 175th St., Homewood, IL 60430

PM Ag Products, Inc., 421 E. Hawley St., Mundelein, IL 60060

Pitman-Moore, Inc., 1201 Douglas Ave., Kansas City, KS 66103

Pet Life Foods, Inc., 7628 Plaza Court, Willowbrook, IL 60521

Pet Specialties, Inc., P. O. Box 258, Nashville, TN 37202

POV Products Inc., P. O. Box 61, Farmingdale, NY 11735

Phelps Industries, Inc., 122 Quincy Shore Drive, Quincy, MA 02171

Pioneer Hi-Bred International, Inc., 7250 N.W. 62nd Ave., Johnston, IA 50131

Poulin Grain, Inc., 3 Railroad Square, Newport, VT 05855

Product Technology Inc., 531 North Center Ave., Somerset, PA 15501

Precise Pet Products, 915 South Fredonia St., Nacogdoches, TX 75961

Pretty Bird International, Inc., 5810 Stacy Trail, Stacy, MN 55079

Provesta Corp./Phillips Petroleum Co., P. O. Box 13A4PB, Bartlesville, OK 74004

Pro-Pet, Inc., P. O. Box 5064, Syracuse, NY 13220

Price Chopper/Hubbard Milling Co., P. O. Box 8500, Mankato, MN 56001

Price Chopper/Doane Products Co., P. O. Box 879, Joplin, MO 64802

Purina Mills Nutrition, Inc., P. O. Box 19856, Brentwood, MO 63144

Purina Mills, Inc., P. O. Box 66812, St. Louis, MO 63166

PMI Feeds, Inc., 1401 South Hadley Rd., St. Louis, MO 63144

Purity Supreme/Doane Products Co., P. O. Box 879, Joplin, MO 64802

Quaker Oats Co., 321 N. Clark St., Suite 23-9, Chicago, IL 60654

- 1. Rockford Farms**
- 2. Wal-Mart Stores, Inc.**
- 3. A & P Stores**
- 4. Milan Dist. Co.**

Quaker Oats Co./K-Mart, 321 N. Clark St., Chicago, 60654

Ragland Mills, Inc., Route 8, Box 168, Neosho, MO 64850

Ralston Purina Co., Checkerboard Square, St. Louis, MO 63164

- 1. Wal-Mart Stores**

R & R Wirtes Farms, North Main St., Lanesboro, MA 01237

Roto Salt Co., 118 Monell St., Box 421, Penn Yan, NY 14527

Royal Wing, Inc., P. O. Box 3349, Newport, DE 19804

Roudybush Feeds, 405 S. Main St., Templeton, CA 93465

Salubrious, Inc., N 1326 Highway J, P. O. Box 136, New Holstein, WI 53061

San Francisco Bay Brand Co., 8239 Enterprise Drive, Newark, CA 94560

Sandcastle Products, Inc., 700 W. 190th St., Gardena, CA 90248

Seaboard Seed Co., P. O. Box 117, Bristol, IL 60512

Seagram, Joseph & Sons, Inc., 508 West High St., St., Lawrenceburg, IN 47025

Scottie Pet Food Co., 80 Rogers St., Lowell, MA 01853

Shafer Seed Co., P. O. Box 170, Oakes, ND 58474

Shaws Supermarket/Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Short, J. R. Milling Co., P. O. Box 866 Kankakee, IL 60901

Shop 'N Save/Deep Run Packing Co., 431 Deep Run Rd., Dublin, PA 18917

Show Bird, Inc., P. O. box 41524, St. Petersburg, FL 33743
ShurTone/Darby Creek Ag Enterprises, P. O. Box 368, Milford Ctr. OH 43045
ShurGain/Maple Leaf Foods, RR#4, James St., St. Marys, Ontario Canada N4X 1C7
Snickle Fritz, Inc., P. O. box 44, Hanover, PA 17331
Soda & Pet Food City Inc., 11 Ramab Cicle, Agawam, MA 01001
Solid Gold Holistic Animal Equine Nutrition Center, 1483 N. Cuyamaca, El Cajun, CA 92020
Solvay Minerals, Inc., P. O. Box 1167, Green River, WY 82935
Source, Inc., 101 Fowler Rd., North Branford, CT 06471
Specialty Feed Products Co., 209 East Main St., Ada, MN 56510
Sunshine Bird Supplies, Inc., 8535 N.W. 56th St., Miami, FL 33166
South Point Ethanal, Old Route 52, P. O. Box 1004, South Point, OH 45680
Stanford Seed Co., P. O. Box 405, RR #1, Muddy Creek Rd., Denver, PA 17517
Standard Seed Co., P. O. Box 366, 560 Fulton St., Buffalo, NY 14240
Star Market Co./Deep Run Packing Co., 431 Deep Run Rd., Dublin, PA 18917
Star Market Co./Heinz Pet Products, One River Front Place, Newport, KY 41071
Stewart Nutritional Products, P. O. Box 780, South Bend, IN 46624
Stinson Canning Co., 66 Bowery St., Bath, ME 04530
St. Jon Laboratories, Inc., 1656 W. 240th St., Harbor City, CA 90710
Stop & Shop/Hubbard Milling, P. O. Box 8500, Mankato, MN 56002
Stop & Shop/Heinz Pet Products, One River Front Place, Newport, KY 41071
Stop & Shop/Doane Products Co., P. O. Box 879, Joplin, MO 64802
Stop & Shop Campanies,/Allied Foods, Inc., 1450 Hills Place, N.W., Atlanta, GA 30318
Strongheart Products Co., P. O. Box 2009, Kansas City, KS 66110

SunFlower, Inc., P. O. Box 169, Grandin, ND 58038

Sunfresh, Inc./Hubbard Milling Co., P. O. Box 8500, Mankato, MN 56002

Sun Seed Co., Inc., P. O. Box 33, Bowling Green, OH 43402

Sunshine Bird Supplies, 8535 NW 56th St., Miami, FL 33166

Sunshine Mills, Inc., P. O. Box 676, Red Bay, AL 35582

Super Markets General/Hubbard Milling Co., P. O. Box 8500, Mankato, MN 56002

Sweet Life Foods/Hubbard Milling Co., P. O. Box 8500, Mankato, MN 56002

Sweet Life Foods/Deep Run Packing Co., Inc., 247 Deep Run Rd., Dublin, PA 18917

Tomlyn Products of I.G.I., Inc., P. O. Box 685, Harding Highway, Buena, NJ 08310

Tetra Sales USA-Division of Warner Lambert Co., 3001 Commerce St., Blacksburg, VA 24060

Texas Gulf Chemicals Co., P. O. Box 171, Weeping Water, NE 68463

Thorefare Marketing/Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Topper Bird Ranch, Route 19, Box 529, Lexington, NC 27292

Topco Associates, Inc., 7711 Gross Point Rd., Skokie, IL 60077

Triumph Pet Industries, P. O. Box 100, Hillburn, NY 10931

Truffa Seed Co., Inc., 31 Industrial Drive, Middleton, NY 10940

Tuttle's Horse Care Div./Y-Tex Corp., P. O. Box 1450, Cody, WY 82414

United Salt Corporation, 200 West Loop Smith, Suite 700, Houston, TX 77027

Up-John Co., 7000 Portage Rd., Kalamazoo, MI 49001

USA Petrx, Inc., 1958 Brandon Court, Glendale Heights, IL 60139

U. S. Wild Bird Food Co., P. O. Box 290, Madison, GA 30650

Ventura Grain Co., 148 Longmeadow Rd., Taunton, MA 02780

Vo-Toys, Inc., 400 South Fifth St., Harrison, NJ 07029

Vigortone AC Products, Div. of Beatrice Foods, P. O. Box 1230, Cedar Rapids, IA 52406

VitaKraft Pet Products Co., Inc., 12 E. Chimney Rock Rd., Bound Brook, NJ 08805

Wal-Mart Stores/Doane Products, P. O. Box 879, Joplin, MO 64802

Wal-Mart Stores/ Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Wal-Mart Stores, Inc./Simmons, P. O. Box 430, Siloam Springs, AR 72761

Wal-Mart Stores/Quaker Oats, 321 N. Clark St., Chicago, IL 60610

Wal-Mart Stores/Ralston Purina, Checkerboard Square, St. Louis, MO 63164

Wal-Mart Stores/Heinz Pet Products, One River Front Place, Newport, KY 41071

Walter Farms, Inc., P. O. Box 132, Forest Lake, MN 55025

Wardley Products Co., Inc., One Aquarium Drive, P. O. Box 2515, Secausus, NJ 07096

Wells Pet Food Corporation, 617 South D St., Monmouth, IL 61462

Wakerfern Foods Corporation/Hubbard Milling, P. O. Box 8500, Mankato, MN 56002

Western Family Foods, Inc./Heinz Pet Products, One River Front Place, Newport, KY 41071

Wildwood Farms, 2055 Lincoln Way, P. O. Box 938, Clinton, IA 52732

Wilson's Corn Products, Inc., P. O. Box 545, Rochester, IN 46975

Wisconsin Brand, Inc., Route 2, Box 214-B, Iola, WI 54945

World Pet Foods, P. O. Box 194, Red Bay, AL 35582

Wysong Medical Corporation, 1880, N. Eastman Rd., Midland, MI 48640

Young's Inc., P. O. Box 71, Roaring Spring, PA 16673

Zapata Haynie Corporation, P. O. Box 2868, Hammond, LA 70404

Zelgler Bros., P. O. Box 95, Gardiners, PA 17324

Zoo Med Laboratories, Inc., 3090 McMillan Rd. San Luis Obispo, CA 93401

INSPECTION OF COMMERCIAL FERTILIZER & AGRICULTURAL LIME PRODUCTS

Report Number 116 for the fiscal Year

Ending 1993

By the Fertilizer Laboratory Staff

of the Feed and Fertilizer Laboratory

West Experiment Station, Amherst, MA 01003

**UNIVERSITY OF MASSACHUSETTS
COLLEGE OF FOOD & NATURAL RESOURCES
AGRICULTURAL EXPERIMENT STATION**

Director, Robert Helgesen

FEED & FERTILIZER STAFF:

**Steven M. Bodine, Supervisor Feed & Fertilizer Laboratory
Xiuying Gao, Chemist
Stacy Ciufu, Chemist
Jane Carroll, Secretary**

STATE FERTILIZER AND LIME INSPECTORS:

**Robert G. Rondeau, Inspector
Stephen Patistea, Inspector**

FERTILIZER MANUFACTURERS TESTED

AGWAY INC. CROP SERVICES, P.O. BOX 4741., SYRACUSE, NY 13221

AGWAY INC., C/O UNIVERSAL COOPERATIVES, 7801 METRO PARKWAY, MINNEAPOLIS, MN 55440

AGWAY, INC., P.O. BOX 4933, SYRACUSE, NY 13221

AGWAY, INC., ROUTE 62, STERLING, MA 01564

AGRI-CYCLE INC., 7384 BOUGHTON HILL RD., VICTOR, NY 14564

AGRITURF INC. 59 DWIGHT ST., HATFIELD, MA 01038

BLUE SEAL FEEDS INC., P.O. BOX 8, LAWRENCE, MA 01842

CALDWELL & JONES, INC., 46 ADAMS ST., P. O. BOX G, MANCHESTER, CT 06040

CHEVRON CHEMICAL CO. ORTHO CONSUMER, P. O. BOX 5047, SAN RAMON, CA 94583

CROP PRODUCTION SERVICES INC., 3411 SILVERSIDE RD., P. O. Box 7013, WILMINGTON, DE 19810

CROP PRODUCTION SERVICES INC., 181 MILL ST., MARLBORO, MA 01752

CROP PRODUCTION SERVICES, INC., RD#1, BOX 219, COBLESKILL, NY 12043

CROP PRODUCTION SERVICES, INC., BOX 98, ELM ST., S. DEERFIELD, MA 01373

DECRAN AG. SUPPLIES INC., 461 MARY'S POND ROAD, ROCHESTER, MA 02770

EARTH GRO INC., P. O. BOX 143, LEBANON, CT 06249

EAST PROVIDENCE FERTILIZER CO., 66 VALLEY STREET, EAST PROVIDENCE, RI 02914

ESPOMA CO., 6 ESPOMA RD., MILLVILLE, NJ 08332

FARMLAND INDUSTRIES, INC.-C/O UNIVERSAL COOPERATIVES, 7801 METRO PARKWAY, MINNENASOTA, MN 55440

FRANKS NURSERY AND CRAFTS INC., C/O THE ANDERSON'S, P. O. BOX 119, MAUMEE, PA 19103

GLORION CORPORATION, 366 NORTH BROADWAY, JERICHO, NY 11753

GREEN MOUNTAIN FERTILIZER DIV., P. O. BOX 156, SUNSET AVE., MILTON, VT 05468

GREENVIEW-LEBANON CHEMICAL CORP., P. O. BOX 180, LEBANON, PA 17042
 HYDRO AGRI TAMPA, INC., 4511 N. HIMES AVE., SUITE 240, TAMPA, FL 33614
 HYDRO AGRI/WGM/HYDRO 270 LAWRENCE AVE., SO. SAN FRANCISCO, CA 94080
 HYPONEX CO. INC., 14310 SCOTTS LAWN RD., MARYSVILLE, OH 43041
 JONATHAN GREEN INC., P. O. BOX 326, FARMINGDALE, NY 07720
 LEBANON CHEMICAL CORP., P. O. BOX 180, LEBANON, PA 17042
 LOFTS PEDIGREED SEED, INC., CHIMNEY ROCK ROAD., BOUND BROOK, NJ 08805
 MASSACHUSETTS NURSERYMEN'S ASSOC., P. O. BOX 706, LEOMINSTER, MA 01453
 MILWAUKEE METROPOLITAN SEWERAGE DIST., 260 SEEBOTH ST., MILWAUKEE, WI 53204
 MORSE, R.F. & SONS, CRANBERRY HIGHWAY, W. WAREHAM, MA 02576
 NATURA LAWN, INC., 5705 INDUSTRY LANE #H, FREDERICK, MD
 O M SCOTT AND SONS CO., 14310 SCOTTS LAWN RD., MARYSVILLE, OH 43041
 PARKER FERTILIZER CO., P. O. BOX 540, 201 WEST FOURTH ST., SYLACAUGA, AL 35150
 PURSELL INDUSTRIES, BOX 540, SYLACAUGA, AL 35150
 RINGER CORP., 9959 VALLEY VIEW ROAD., EDEN PRAIRIE, MN 55344
 STANFORD SEED CO., 340 S MUDDY CREEK ROAD., DENVER, CO 80202
 SUSTANE CORP., 1103 W. MAIN ST., P. O. BOX 19, CANNON FALLS, MN 55009
 UNIVERSAL CHEMICAL CO. INC., P. O. BOX 341, WEST LYNN, MA 01905
 VICKSBURG CHEMICAL CO., P. O. BOX 821003, VICKSBURG, MS 39182
 VIGORO INDUSTRIES INC., P. O. BOX 4139., 2007 W. HIGHWAY 50, FAIRVIEW HEIGHTS, IL 62208

TOTAL MANUFACTURERS TESTED...42

TOTAL PRODUCTS TESTED...423

TOTAL SAMPLES TAKEN...425

TOTAL SAMPLES SUBSTANTIALLY COMPLYING WITH GUARANTEES...318

TOTAL SAMPLES SHOWING DEFICIENCIES TOWARD GUARANTEES...108

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEED</u>	<u>ANALYZED</u>	<u>DEFICIENT</u>
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N - P - K

AGWAY INC.

Ammonium Sulfate.....	21-0-0.....	1.....	0
Arbor Grow Tree & Shrub.....	21-7-14.....	1.....	0
Blend-Rite.....	0-10-40.....	2.....	0
Blend-Rite.....	0-25-25.....	1.....	0
Blend-Rite.....	0-46-0.....	2.....	0
Blend Rite.....	3-13-26.....	2.....	1
Blend Rite.....	5-10-5.....	2.....	0
Blend-Rite.....	5-10-10.....	3.....	1
Blend Rite.....	5-15-30.....	1.....	1
Blend-Rite.....	6-24-24.....	1.....	0
Blend-Rite Custom Mix.....	7-30-22.....	1.....	1
Blend Rite.....	8-32-16.....	1.....	0
Blend-Rite.....	10-10-10.....	6.....	2
Blend-Rite.....	10-20-20.....	4.....	3
Blend-Rite.....	15-8-12.....	4.....	4
Blend Rite.....	15-15-15.....	2.....	2
Blend-Rite.....	19-19-19.....	1.....	1
Blend-Rite.....	21-7-21.....	1.....	1
Blend-Rite.....	23-12-18.....	1.....	1
Bulk Fertilizer.....	11-11-34.....	1.....	1
Bulk Fertilizer.....	12-14-29.....	1.....	0
Bulk Fertilizer.....	15-5-34.....	1.....	0
Bulk Fertilizer.....	23-7-23.....	1.....	0
Bulk Fertilizer.....	24-12-18.....	1.....	0
Composted Manure and Humus....	0.5-0.5-0.5.....	1.....	0
Cottonseed meal.....	6-2-2.....	1.....	1
Cow Manure.....	2-1-1.....	1.....	0
Cran-Best.....	12-24-12.....	3.....	3
Evergreen Plant Food.....	8-4-4.....	2.....	0
Garden Plant Food.....	5-10-5.....	3.....	3
Grassroots Lime & Grow.....	6-1-3.....	1.....	0
Grassroots.....	27-2-11.....	1.....	1
Greenlawn.....	32-3-5.....	3.....	0
Greenlawn Turf Starter.....	11-25-11.....	3.....	2
Muriate of Potash.....	0-0-60.5.....	1.....	0
Natures Way Organic.....	4-5-4.....	1.....	1
Natures Way Organic.....	7-5-5.....	1.....	0
Nutri-Bond Super.....	10-10-10.....	2.....	0
Nutri-Bond Super with Micros..	10-10-10.....	3.....	1
Nutri-Bond Early Edge Crop Str	10-20-10.....	1.....	1
Nutri-Bond Corn Starter.....	10-20-10.....	5.....	4
Nutri-Bond.....	13-13-13.....	7.....	3
Nutri-Bond with Micros.....	13-13-13.....	2.....	0
Professional Hi-Nitrogen.....	30-5-10.....	1.....	0
Professional Turf.....	10-6-4.....	2.....	0
Professional Turf.....	15-15-15.....	1.....	0

MANUFACTURER & BRANDGUARANTEEDANALYZEDDEFICIENT

N - P - K

AGWAY, INC.

Professional Turf.....	20-5-10.....	2.....	1
Professional Turf.....	22-0-22.....	1.....	1
Steamed Bone Meal.....	1-23-0.....	1.....	0
Sulfate of Potash-Magnesia....	0-0-22.....	2.....	0
Super Garden Plant.....	8-16-16.....	2.....	0
Triple Superphosphate.....	0-44-0.....	1.....	0

AGRI-CYCLE INC.

Plant Right Organic Tomato....	3-6-6.....	1.....	0
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AGRI-TURF INC.

All Purpose Garden Fertilizer.	5-10-5.....	1.....	0
Agri-Turf Liquid.....	15-1-6.....	1.....	0
All Purpose Lawn/Garden.....	10-10-10.....	1.....	1
All Purpose Slow Release.....	10-6-4.....	2.....	1
All Purpose Lawn Fertilizer...	10-6-4.....	1.....	0
Agriturf Fertilizer.....	8-15-28.....	1.....	0
Agriturf Fertilizer.....	7-33-11.....	1.....	0
Agriturf Fertilizer.....	9-35-10.....	1.....	0
Agriturf Fertilizer.....	10-10-10.....	1.....	0
Agriturf Fert W/Sulfur.....	20-10-10.....	1.....	1
Agriturf Premium Starter.....	19-19-19.....	1.....	1
Agriturf Premium Fairway Fert.	22-6-22.....	1.....	0
Agriturf Professional Fert....	28-3-16.....	1.....	1

BLUE SEAL FEEDS INC.

Fall and Winter Starter.....	12-23-18.....	1.....	1
Turf Green.....	10-3-6.....	1.....	0

CALDWELL AND JONES INC.

Surge.....	5-10-10.....	2.....	0
Surge High Protein.....	7-7-7.....	1.....	1
Surge.....	10-10-10.....	2.....	2
Specialty.....	10-6-5.....	1.....	1

MANUFACTURER & BRANDGUARANTEEDANALYZEDDEFICIENT

N - P - K

CHEVRON CHEMICAL CORP., ORTHO DIVISION

General Purpose Plant Food.....10-10-10.....1.....0

CROP PRODUCTION SERVICES

Crop Production Services.....	5-10-5.....	1.....	0
Crop Production Services.....	8-24-16.....	1.....	1
Crop Production Services.....	10-10-10.....	2.....	0
Crop Production Services.....	15-8-12.....	3.....	1
Crop Production Services.....	15-15-15.....	1.....	0
Crop Production Services.....	18-5-20.....	1.....	1
Crop Production Services.....	24-12-18.....	1.....	1
CPS Bulk.....	15-0-15.....	2.....	0
CPS Bulk.....	15-8-12.....	1.....	0
CPS Bulk.....	15-15-15.....	1.....	0
CPS Bulk.....	17-2-21.....	1.....	1
CPS Bulk.....	24-12-18.....	1.....	1
Village Green.....	10-6-4.....	1.....	0
Village Green.....	15-15-15.....	1.....	0
Village Green Professional....	18-11-17.....	1.....	1
Village Green Market Garden...	6-12-12.....	1.....	0
Village Green 75% Organic.....	10-6-4.....	1.....	0
Par Ex Slow Release Fert.....	24-4-12.....	1.....	0
Tree/Shrub/Lawn and Garden....	18-5-9.....	1.....	0

DECRAN AGRICULTURAL SUPPLIES INC.

De Cran Turf Special.....21-3-20.....3.....1

DERBY FEED CO.INC.

Derby's Lawn Fertilizer.....	10-6-4.....	2.....	1
Derby's All Purpose.....	10-10-10.....	2.....	0

EARTHGRO INC.

Lawn Food.....	8-2-4.....	1.....	0
Vegetable and Flower.....	4-4-4.....	1.....	0
Vegetable and Flower.....	4-6-4.....	2.....	1
Gardner's Choice Manure.....	(.5-.5-.5).....	1.....	0
1881 Select Dehy. Cow Manure..	2-1-1.....	1.....	0
1881 Select Veg. & Flower	4-6-4.....	1.....	0
1881 Select Lawn.....	8-2-4.....	1.....	0

MANUFACTURER & BRANDGUARANTEEDANALYZEDDEFICIENT

N - P - K

EAST PROVIDENCE FERTILIZER CO.

Growers Choice.....	10-6-4.....	1.....	0
Growers Choice.....	10-10-10.....	1.....	1
Growers Choice.....	30-4-10.....	1.....	1

ESPOMA CO.

Holly-Tone.....	4-6-4.....	5.....	0
Holly-Time.....	4-6-4.....	1.....	0
Organic Lawn Food.....	18-8-6.....	1.....	0
Garden Tone.....	4-6-6.....	1.....	0

Farmland Industries

Toma's Vegetable & Garden....	5-5-5.....	1.....	0
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FRANKS NURSERY AND CRAFTS INC.

All Purpose.....	12-12-12.....	1.....	0
All Purpose Natural Organic...	3-4-3.....	1.....	0
Lawn.....	28-4-8.....	2.....	2
Lawn.....	32-4-8.....	1.....	1
Seed Starter.....	18-24-6.....	1.....	1

GLORION CORPORATION

Glorion Lawn Food.....	25-3-3.....	1.....	0
Glorion All Purpose.....	5-10-5.....	1.....	0
Glorion Starter.....	13-25-12.....	1.....	1

GREEN CHARGER FERTILIZER CO.

10-10-10.....	10-10-10.....	1.....	0
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GREEN MOUNTAIN FERTILIZER DIV.

50% Organic.....	10-6-4.....	1.....	0
Green Mountain Fertilizer....	10-6-4.....	1.....	0
Green Mountain Fertilizer....	5-10-10.....	2.....	0
Green Mountain Fertilizer....	10-10-10.....	1.....	0
Green Mountain Fertilizer....	15-8-12.....	1.....	0
Green Mountain Fertilizer....	19-19-19.....	1.....	1

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEED</u>	<u>ANALYZED</u>	<u>DEFICIENT</u>
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N - P - K

GREENVIEW DIVISION AND LEBANON CHEMICAL CORPORATION

Lebanon Fertilizer.....	5-10-10.....	1.....	0
Lebanon Fertilizer.....	10-20-20.....	1.....	1
Lebanon Fertilizer.....	10-10-10.....	6.....	0
Lebanon Square Deal Extra....	14-14-14.....	1.....	0
Lebanon Top Crop.....	16-8-8.....	1.....	1
Lebanon Sulfur Coated Urea...	37-0-0.....	1.....	0
Lebanon Homestead.....	20-3-3.....	1.....	0
Lebanon Super Phosphate.....	0-44-0.....	1.....	0
Lebanon Acre.....	9-5-3.....	2.....	0
Lebanon Greens Keeper.....	20-8-8.....	3.....	0
Lebanon Greens Keeper.....	10-6-4.....	1.....	0
Lebanon Greens Keeper F/W....	12-25-12.....	1.....	1
Lebanon Professional Turf....	28-6-12.....	1.....	1
Lebanon Professional Turf....	32-4-8.....	1.....	0
Lebanon Tree.....	16-4-8.....	1.....	0
Lebanon Green Pro 4th Step...	13-25-12.....	1.....	0
Lebanon Country Club.....	13-25-12.....	1.....	1
Lebanon Renu.....	10-18-10.....	3.....	1
Lebanon Green Gold Lawn.....	26-4-6.....	2.....	1
Lebanon All Organic Fl & Vgs.	3-4-3.....	1.....	0
Lebanon Seed Starter.....	9-17-9.....	1.....	0
Greenview All Natural.....	3-4-3.....	1.....	0
Greenview Organic.....	3-4-3.....	1.....	0
Greenview Green Start.....	9-17-9.....	4.....	0
Greenview All Organic Lawns	4-5-4.....	2.....	0
Greenview Shrub Mate.....	12-10-10.....	2.....	0
Greenview Tree Mate.....	12-9-9.....	1.....	0
Greenview Fertilizer.....	5-10-5.....	2.....	0
Greenview Garden Mate.....	10-20-10.....	2.....	1
Greenview Winter Green.....	10-16-20.....	3.....	0
Greenview Multi Purpose.....	10-6-4.....	2.....	0
Greenview Greenpower.....	30-4-4.....	15.....	2

HYDRO AGRI TAMPA, INC.

Viking Ship Cal Nitrate.....	15.5-0-0.....	1.....	0
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HYDRO AGRI/WGM/HYDRO

Viking Ship Cal Nitrate.....	15.5-0-0.....	1.....	0
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MANUFACTURER & BRANDGUARANTEEDANALYZEDDEFICIENT

N - P - K

HYPONEX CORPORATION

Hyponex CmptMnurOrgHumus.....(.5-.5-.5).....4.....0
Tilleez Dehydrated Cow Manure.2-1-1.....1.....0

JONATHAN GREEN & SONS INC.

Shrub Tonic.....4-8-3.....1.....0
Jonathan Green.....10-6-4.....1.....0
Seeding Fertilizer.....14-28-15.....1.....0
Green-up.....25-5-5.....1.....0
Super Green Up.....27.3.7.....2.....0

LOFTS INC.

Fall Feed and Seed Starter....13-11-15.....1.....1
Lawn Food.....28-3-8.....2.....0
Organic Lawn.....5-3-0.....1.....0

MASSACHUSETTS NURSERYMEN'S ASSOCIATION

Turf-0-Ganic.....10-6-4.....2.....0
Step 3 B Summer Feed.....16-4-10.....1.....0
Plant-0-Ganic.....8-8-8.....2.....0
Superphosphate.....0-20-0.....1.....0
Country Garden.....5-10-5.....1.....0

MILWAUKEE METROPOLITAN SEWERAGE DIST.

Milorganite.....6-2-0.....8.....0

MORSE, R.F. & SONS

Perform.....30-3-12.....1.....1
Perform.....14-4-20.....1.....0
Perform K-Cal.....0-0-0.....1.....0

NATURA LAWN, INC.

Natura Lawn Fertilizer.....24-0-10.....1.....1

MANUFACTURER & BRANDGUARANTEEDANALYZEDDEFICIENT

N - P - K

OLD FOX CHEMICAL, INC.

Old Fox Fertilizer.....10-6-4.....1.....0

O.M. SCOTT & SONS CO.

Electra Plant Food.....	5-10-3.....	1.....	0
Scott's Next Generation.....	9-2-4.....	2.....	1
Lawn Reviver.....	9-2-4.....	1.....	0
Rose Builder.....	14-11-12.....	1.....	0
Scott's Next Generation.....	14-3-6.....	3.....	0
Scott's Starter.....	17-23-6.....	1.....	0
Winterizer.....	19-3-12.....	1.....	0
Turf Builder.....	20-27-5.....	3.....	0
Scott's Starter.....	20-27-5.....	1.....	0
Lawn Pro.....	27-3-8.....	2.....	0
Turf Builder.....	29-3-4.....	23.....	4
Step 4 Lawn Fertilizer.....	32-3-10.....	2.....	0
Super Turf Builder.....	35-3-5.....	7.....	0

PARKER FERTILIZER CO.

All Purpose.....	5-10-5.....	1.....	0
Green Charm.....	10-10-10.....	3.....	1
Green Charm.....	19-3-12.....	1.....	0
Green Charm.....	27-4-6.....	1.....	0
Service Star Economy Lawn....	28-3-3.....	1.....	0
Service Star Starter.....	18-24-6.....	1.....	0
Service Star Premium Lawn....	26-6-6.....	2.....	0
Soilife All Purpose.....	10-6-4.....	1.....	0
Green Charm Lawn Starter.....	18-25-6.....	1.....	0
Smart Choice Superior Lawn...	24-6-12.....	1.....	0
Parker's Premium Lawn.....	28-3-6.....	1.....	0

PURSELL INDUSTRIES

Pursell Fertilizer.....44-0-0.....1.....0

READING BONE FERTILIZER

W/50% N As Nutralene.....	6-24-24.....	1.....	1
Super Urea.....	46-0-0.....	1.....	0

MANUFACTURER & BRANDGUARANTEEDANALYZEDDEFICIENT

N - P - K

RINGER CORPORATION

Ringer Summer Restore.....	5-2-10.....	1.....	0
Ringer Lawn Restore.....	9-4-4.....	4.....	0

STANFORD SEED CO.

Old Eng. Start-tilizer Fall...	8-20-10.....	1.....	0
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SUSTAN CORPORATION

Sustane Fertilizer.....	5-2-4.....	1.....	0
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VICKSBURG CHEMICAL CORPORATION

Power Potassium Nitrate.....	13.75-0-44.50.....	2.....	0
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VIGORO INDUSTRIES INC.

Par Ex.....	0-0-22.....	1.....	0
Par Ex.....	21-3-16.....	2.....	0
Par Ex.....	24-0-20.....	1.....	0
Par Ex.....	24-4-12.....	2.....	0
Par Ex.....	25-0-13.....	1.....	0
Par Ex.....	31-0-0.....	1.....	0
Par Ex.....	31-3-11.....	1.....	0
All American Lawn & Garden..	5-10-5.....	1.....	0
Gro-Tone Plant Food.....	5-10-5.....	3.....	0
Gro-Tone Evergreen Food.....	6-8-6.....	1.....	0
Gro-Tone Bone Meal.....	6-12-0.....	1.....	0
All American Lawn & Garden..	10-6-4.....	2.....	0
Vigoro Starter.....	18-24-6.....	1.....	0
K-Gro Lawn Starter and Fall..	18-24-12.....	2.....	0
K-Gro Lawn Fertilizer.....	29-3-4.....	3.....	0
Deep Green.....	23-3-6.....	3.....	1

DEFICIENCY REPORT

<u>MANUFACTURER & BRAND</u>	<u>GUARANTEE %</u>		<u>ACTUAL %</u>
	Nitrogen	Phosphoric Acid	Potash
<u>AGWAY INC.</u>			
Blend-Rite.....	3-13-26.....	2.66-***	9.14-26.94
	5-10-10.....	4.5-***	8.78-9.43
Blend-Rite Custom Mix.....	7-30-22.....	6.72-***	28.03-22.5
Blend-Rite.....	10-10-10.....	10.0-***	8.81-***8.92
	10-10-10.....	**7.81-	9.5-9.36
	10-10-10.....	9.64-***	9.24-9.65
Blend-Rite.....	10-20-20.....	9.61-19.48-***	18.79
	10-20-20.....	9.89-***	19.10-19.27
	10-20-20.....	**9.35-	19.51-20.38
Blend-Rite.....	15-8-12.....	**11.31-	7.98-12.60
	15-8-12.....	14.68-***	6.52-11.34
	15-8-12.....	**12.29-	9.23-12.97
	15-8-12.....	**14.10-	7.91-12.75
	15-15-15.....	**13.97-	15.02-15.33
	15-15-15.....	**13.92-	14.4-14.37
Blend-Rite.....	19-19-19.....	19.39-***	17.75-19.66
	21-7-21.....	**17.49-	9.02-21.67
Blend-Rite.....	23-12-18.....	**20.58-	13.96-18.79
Nature's Way Organic Plant Food..	4-5-4.....	4.93-***	3.95-4.11
Cran-Best.....	12-24-12.....	12.06-***	22.53-13.36
	12-24-12.....	11.58-***	21.30-11.99
	12-24-12.....	11.84-***	21.22-12.29
Garden Plant Food.....	5-10-5.....	5.48-***	8.57-4.68
	5-10-5.....	5.42-***	8.61-5.08
	5-10-5.....	4.69-***	9.26-5.56
Greenlawn Turf Starter.....	11-25-11.....	**10.38-	25.61-13.67
	11-25-11.....	11.11-***	22.75-10.61
Grassroots.....	27-2-11.....	**24.85-	2.51-12.43
Professional Turf.....	22-0-22.....	**17.63-	0-24.88
ProfessionalTurf.....	20-5-10.....	**17.81-	5.20-11.00
Turf Food Fertilizer.....	10-6-4.....	**9.02-	5.68-4.22
	10-6-4.....	**9.26-	6.40-5.56
	10-6-4.....	**6.66-	5.73-3.61
NutriBond.....	11-11-34.....	10.59-***	9.10-38.59
	13-13-13.....	13.46-***	11.81-13.35
Nutri Bond Corn Starter.....	10-20-10.....	**9.03-	20.44-9.92
	10-20-10.....	9.91-***	18.80-10.50
	10-20-10.....	10.15-***	17.38-10.83
	10-20-10.....	10.68-***	17.34-10.88

MANUFACTURER & BRANDGUARANTEE %ACTUAL %

Nitrogen

Phosphoric
Acid

Potash

AGRI-TURF INC.

Agri-Turf All Purpose Slow Rel...	10-6-4.....	**9.18-6.23-6.45
All Purpose L/G.....	10-10-10.....	**8.25-**8.73-9.85
W/Sulfur.....	20-10-10.....	19.65-10.76-**1.85
Professional.....	28-3-16.....	**26.56-3.30-16.85

BLUE SEAL FEEDS, INC.

Blue Seal Turf Green- Fall/Winter/Starter....	12-23-18.....	12.73-26.16-**16.12
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CALDWELL and JONES INC.

Surge High Protein.....	7-7-7.....	**5.86-**6.09-7.80
Surge.....	10-10-10.....	**8.59-**9.29-9.96

CROP PRODUCTION SERVICES

Crop Production Services.....	8-24-16.....	9.70-**20.34-16.41
Crop Production Services.....	15-8-12.....	16.72-10.06-**10.66
Crop Production Services.....	18-5-20.....	20.18-6.60-**16.85
Crop Production Services.....	24-12-18.....	23.49-11.69-**16.64
Village Green Professional.....	18-11-17.....	18.07-13.47-**15.91
CPS Bulk.....	17-2-17.....	**15.89-2.50-20.92
CPS Bulk.....	24-12-18.....	**23.22-12.04-18.51

DERBY FEED CO.

Derby's Lawn Fert.....	10-6-4.....	**8.23-5.69-4.36
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MANUFACTURER & BRANDGUARANTEE %ACTUAL %

Nitrogen

Phosphoric
Acid

Potash

EARTHGRO INC.Vegetable and Flower.....4-6-4.....6.00-****4.60**-5.12EAST PROVIDENCE FERTILIZER CO.Growers Choice.....10-10-10.....****8.78-****8.35****-9.69Growers Choice.....30-4-10.....****27.08**-3.35-11.48FRANK'S NURSERY and CRAFTS INC.Frank's Lawn Food.....28-4-8.....****26.53**-4.24-10.27Frank's Lawn Food.....28-4-8.....****26.69**-4.93-8.77Frank's Lawn Fertilizer.....30-4-8.....****30.92**-4.55-8.26GLORION CORPORATIONGlorion Starter Fertilizer.....13-25-12.....12.43-****23.40**-12.60GREEN MOUNTAIN FERTILIZER CO.GMFFertilizer.....19-19-19.....****17.36**-19.38-18.37GREENVIEW DIVISION OF LEBANON CHEMICAL CO.Greenview All Natural Organic....3-4-3.....3.60-****3.20**-4.40

MANUFACTURER & BRANDGUARANTEE %ACTUAL %

Nitrogen

Phosphoric
Acid

Potash

GREENVIEW DIVISION OF LEBANON CHEMICAL CO.

Greenview Greenpower.....30-4-4.....**27.65-3.89-5.34
30-4-4.....31.78-3.79-**3.32

JONATHAN GREEN AND SONS INC.

Seeding.....14-28-15.....14.43-**28.92-**13.63
Jonathan Green.....10-6-4.....**9.12-5.79-4.58

LEBANON CHEMICAL CO.

Lebanon Fertilizer.....10-20-20.....9.77-**18.23-19.45
Lebanon Top Crop.....16-8-8.....**14.50-7.55-8.90
Lebanon Professional Turf.....28-6-12.....30.48-**4.88-**10.81
Lebanon Garden Mate.....10-20-10.....10.52-**19.10-10.64
Lebanon Professional 4th Step...13-25-12.....12.99-**23.94-13.51
Lebanon Country Club.....13-25-12.....12.65-**20.72-13.36
Lebanon Renu.....10-18-10.....12.69-**14.64-11.18
Lebanon Green Gold Lawn.....26-4-6.....27.23-4.19-**5.43
Lebanon Greenskeeper-F & W.....12-25-12.....13.94-**23.08-12.56

LOFTS SEED INC.

Fall Feed & Seed Starter.....13-11-15.....13.72-11.34-**13.06

MASSACHUSETTS NURSERYMENS ASSOC.

Country Gardener.....5-10-5.....4.50-**9.13-5.20

NATURA LAWN, INC.

Natura Lawn.....24-0-10.....**22.97-0-946

MANUFACTURER & BRAND

GUAUANTEE %

ACTUAL %

O.M.SCOTT & SONS CO.

Turf Builder.....	29-3-4.....	**27.70-3.79-4.47
	29-3-4.....	**28.03-3.43-4.58
	29-3-4.....	**27.99-2.85-4.69
	29-3-4.....	**27.97-3.81-4.89

PARKER FERTILZER CO.

Wal-Mart Green Charm.....	10-10-10.....	**8.35-9.52-8.68
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READING BONE FERTILIZER

6-24-24 WITH 50% N as Nutralene..	6-24-24.....	10.74-***13.83-25.64
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VIGORO INDUSTRIES INC.

Gro-Tone Plant Food.....	5-10-5.....	7.24-***8.77-6.46
Lawn Starter and Fall.....	18-24-12.....	**17.19-24.57-11.68

* Within Tolerance

** Deficient

*** Excessive

END OF REPORT

1993 SPECIALTY FERTILIZER

Aggrene Corporation, 915 Tower Ave., Superior, WI 54880

Agr-Mar, 4190 Pleasantdale Rd., Atlanta, GA 30340

Agri-Turf, Inc., 59 Dwight St., Hatfield, MA 01038

Agri-Turf, Inc./Derby Feed Co., 59 Dwight St., Hatfield, MA 01038

Agrico Chemical Co., P. O. Box 61830, New Orleans, LA 70161

Agri-Cycle, Inc., 7384 Boughton Hill Rd., Victor, NY 14564

Agro-K Corporation, 36-37th Ave., Minneapolis, MN 55421

Agway, Inc., c/o Universal Cooperatives, 7801 Metro Parkway, Minneapolis, MN 55440

Agway, Inc., P. O. Box 4933, Syracuse, NY 13221

Agway, Inc., Crop Services, P. O. Box 4741, Syracuse, NY 13221

Alaska Fish Fertilizer Co., 865 Lind Ave. SW P. O. Box 735, Renton, WA 98055

Allens Seed Store, Inc., 693 South County Trail, Exeter, RI 02822

Allied Signal, Inc., Plastics, P. O. Box 1559, Hopewell, VA 23860

AllJack & Co., 377 Amelia St., Plymouth, MI 48170

Amturf, 850 North Old U.S. 23, Brighton, MI 48116

American Colloid Co., 1500 W. Shure Drive, Arlington Heights, IL 60004

American Environmental Products, Inc., 11300 Rockville Pike, Suite 1203, Rockville, MD 20852

Amway Corporation, 7575 East Fulton Rd., Ada, MI 49355

Ancient Age Distilling Co., Leestown Rd., Frankfurt, KY 40601

Andgrow Fertilizer, 3150 Stoney Point Rd., E. Berlin, PA 14316

APR Products, Inc., P. O. Box 890769, Houston, TX 77289

Aquarium Pharmaceuticals, Inc., 50 E. Hamilton St., Chalfont, PA 18914

Arcadian Fertilizer L.P., 6750 Poplar Ave., Suite 600, Memphis, TN 38138

Armatron International (Flowtron) 2 Main St., Melrose, MA 02176

Arctech, Inc., 104-D Carpenter Drive, Sterling, VA 22170

ASB Greenworld, P. O. Box 1728, Valdosta, CA 31603

ASB (Canada) Ltd., Pointe Sapin, Kent Co., NB, Canada E0A 2A0

Atlas Fish Fertilizer Co., 865 Lind Ave., SW, Renton, WA 98055

ATS Research Inc., 914 East Drive, Memphis, TN 38108

A. H. Hoffman, Inc., 77 Cooper Ave., Landisville, PA 17538

B. P. Chemcial, P. O. Box 628, Lima, OH 45802

Bendien, D. V., Thierensweg 10, 1411 Ex Naarden, Netherlands

Bio Grounds Keeper, Inc., 6667 West Old Shakopee, Suite 101, Bloomington, MN 55438

Bio-Gen International, Inc., 2946 East 39th St., Rapid City, SD 57701

Bio Gro Systems, Inc., P. O. Box 5056, Lancaster, PA 17601

Bio Gro Systems, Inc., 1540 Canton Center Drive, Baltimore, MD 21227

Bio-Turf, Inc., P. O. Box 6507, Hilton Head Island, SC 29938

Black Leaf Products Co., P. O. Box 189, Buckner, KY 40010

Blue Seal Feeds, Inc., P. O. Box 8, Lawrence, MA 01842

Bourdrau Bros., RD #1, Box 328, Madison Rd., Champlain, NY 12919

Caldwell & Jones, Inc., 46 Adams St., P. O. Box G, Manchester, CT 06040

Canagro Agricultural Products, Ltd., P. O. Box 335, Elmira, Ontario N3B 2Z7

Celex Corporation, 377 Amelia St., Plymouth, MI 48170

Charles H. Lilly Co., 7737 NE Killingsworth, Portland, OR 97218

Charles C. Hart Seed Co., P. O. Box 9169, Wethersfield, CT 06109

Chesapeake Sunrise Marketing Corp., 5800 Quarantine Rd., Baltimore, MD 21226

Chevron Chemcial Co., 940, Hensley St., Richmond, CA 94804

Ciba-Geigy Corporation, Agri. Div., P. O. Box 18300, Greensboro, NC 27419

CIL Inc., P. O. Box 1900, Courtright, Ontario Canada N0N 1H0

Clinton Nursery Products, Inc., P. O. Box 932, 114 Main St., Clinton, CT 06413

Conrad Fafard, Inc., P. O. Box 790, Agawam, MA 01001

Coron Corporation, P. O. Box 198, Souderton, PA 18964

Creative Sales, Inc., 222 Park Ave., Fremont, NE 68025

Crop Production Services, 181 Mill St., Marlboro, MA 01752

Crop Production Services, Inc., RD #1 Box 219, Cobleskill, NY 12043

Crystal Co., P. O. Box 220055, St. Louis, MO 63122

Cytozyme Lab., Inc., 134 South 700 West, Salt Lake City, UT 84104

C. F. Industries, Salem Lake Drive, Long Grove, IL 60047

Darby Creek Ag Enterprises, Inc., 110 So. Mill St., Milford Center, OH 43045

Dexol Industries, 1450 West 228th St., Torrance, CA 90501

Domestic Fertilizer, 1750 17th St., Paris, KY 40361

Dragon Chemcial Corporation, 7033 Walrond Drive, NW, P. O. Box 7311, Roanoke, VA 24019

D. H. & R. Company, Inc., P. O. Box 333, LaPorte, IN 46350

Easy Gardener, Inc., P. O. Box 21025, Waco, TX 76702

Earth Conscious Co., 7737 NE Killingsworth, Portland, OR 97218

Earthgro, Inc., P. O. Box 862, Newark Rd., Avondale, PA 19311

Earthgro, Inc., P. O. Box 143, Lebanon, CT 06249

Earth-Rite, Inc., RD #1, Box 243, Gap, PA 17527

Emerald Green, Inc., 1149 D St., Rt. 131, P. O. Box G, Milford, OH 45150

Emerald Isle Ltd., 2153 Newport Rd., Ann Arbor, MI 48103

Farmland Industries, Inc., c/o Universal Cooperatives, 7801 Metro Parkway, Minnenasota, MN 55440

Fertrell Co., P. O. Box 265, Bainbridge, PA 17502

Fer-Mel Corporation, 304 Main St., Wethersfield, CT 06109

Fisons Horticulture, Inc., 110-110th Ave., NE Suite 490, Bellevue, WA 98004

Fox Point Fertilizer, Inc., 5 Depot Ave., Cranston, RI 02920

FMC Corporation, Ag Chemical Div., 1735 Market St., Philaelphia, PA 19103

Frank's Nursery/The Anderson's, P. O. Box 119, Maumee, OH 43537

F. A. Bartlett Tree Experts Co., 13768 Hamilton Rd., Charlotte, NC 28278

G. A. International Corp., 16183 Ornelas St., Irwindale, CA 91706

G & D Sales Co., 535 Fifth Ave., New York, NY 10017

Gale Group, Inc., 111 N. Orlando Ave., Winter Park, FL

Glorion Corporation, 366 North Broadway, Jericho, NY 11753

Grace-Sierra Hort. Products, 1001 Yosemite Drive, Milpitas, CA 95035

Grass Roots Natures Way, Inc., P. O. Box 156, Sunset Ave., Milton, NY 05468

Greenaid Products, P. O. Box 1701, LaPorte, IN 46345

Green Light Company, P. O. Box 17985, San Antonio, TX 78217

Green Mountain Fertilizer, P. O. Box 156, Milton, VT 05468

Greenworld Products Corporation, 401 North 3rd St., Suite 676, Minneapolis, MN 55401

Gro Green Products, Inc., 717 Elk St., Buffalo, NY 14210

Gromax, 229 Pajaro St., #301, Salinus, CA 93901

Gro Tec, Inc., P. O. Box 290, Madison, GA 30650

Harmony Products, Inc., 2121 Old Greenbrier Rd., Chesapeake, VA 23320
 Henri Studio, Inc., 1250 Henri Drive, Wauconda, IL 60084
 Helena Chemical Co., 6075 Poplar Ave., Suite 500, Memphis, TN 38119
 Hickory Hollow, Inc., 3434 So. 400 E, Albion, IN 46701
 HHI Custom Pelleting, 3434 South 400 East, Albion, IN 46701
 Howard Johnson's, 161 W. Wisconsin Ave., Milwaukee, WI 53203
 Hydro Agri Tampa, Inc., 4511 N. Himes Ave., Suite 240, Tampa, FL 33614
 Hydroculture USA, Inc., 7585 Ponce De Leon Circle, Doraville, GA 30340
 Hyponex Co., Inc., 14310 Scotts Lawn Rd., Marysville, OH 43041
 Hy-Trous Crop, 3 Green St., Woburn, MA 01801
 ICI Canada, Inc., P. O. Box 1900, Courtright, Ontario, Canada N0N 1H0
 Ideal Technologies, Inc., 2324 Gateway Drive, Irving, TX 75063
 IMC Fertilizer Co., One Nelson C. White Parkway, Mundelein, IL 60060
 Imperial Nurseries, 90 Salmon St., Granby, CT 06035
 Iowa Dirt Farms/Universal Coop., Inc. P. O. Box 460, Minneapolis, MN 55440
 Ironite Products, Co., 8700 Via De Ventura, Suite 280, Scottsdale, AZ 85258
 J & J Agri-Products & Services, Inc., 220 South 2nd St., Dillsburg, PA 17019
 J & M Chemical Division, 13900 Broadway Ave., Cleveland, OH 44125
 J J Mauget Co., 2810 North Figueroa St., Los Angeles, CA 90065
 John Wojtowicz, Inc., 56 Plant St., Clifton Park, NY 12065
 Jonathan Green, Inc., P. O. Box 326, Farmingdale, NJ 07720
 JRP International, Inc., North 9176 Highway 151, Fond du Lac, WI 54935
 J. B. Ogilvie, Inc., 1 Greendale Drive, Caledonia, Ontario N0A 1A0

Kaiser/Estech, Inc., P. O. Box 4139, Fairview Heights, IL 62208

Kaiser/Estech, Inc., Div. of Vigoro, P. O. Box 233, Portland, CT 06480

Knox Fertilizer Co., Inc., West Culver Rd., P. O. Box 248, Knox, IN 46534

Koos, Inc., 4500 13th Court, Kenosha, WI 53140

K-Mart Corporation, 3100 West Big Beaver, Troy, MI 48084

A & G Agri. Tech, Inc., 5 Militia Rd., Whitehouse Station, NJ 08889

Lebanon Chemical Corporation, P. O. Box 180, Lebanon, PA 17042

Lesco, Inc., 20005 Lake Rd., Rocky River, OH 44116

Lewis International Corporation, 500 Morris Ave., Springfield, NJ 07081

Lofts Pedigreed Seed, Inc., Chimney Rock Rd., Bound Brook, NJ 08805

Loncala Phosphate Co., P. O. Box 766, High Springs, FL 32643

Loveland Industries, Inc., P. O. Box 667, Greeley, CO 80632

Martin Marletta Chemicals, Exective Plaza II, Hunt Valley, MD 21030

Massachusetts Nuserymen's Association, P. O. Box 706, Leominster, MA 01453

Maxicrop U.S.A. Inc., 748 Algonquin Rd., Arlington Heights, IL 60005

Merrill's Manure Industry, 26 West 38th St., New York, NY 10018

Micro Flo Company, P. O. Box 5948, Lakeland, FL 33807

Miller Chemical & Fertilizer Corp., P. O. Box 333, Hanover, PA 17331

Milwaukee Metro. Sewerage Commission, 260 Seeboth St., Milwaukee, WI 53204

Monsanto Agricultural Co., 800 N. Lindberg St., St. Louis, MO 63167

Nassau Garden, Inc., 366 North Broadway, Jericho, NY 11753

Natural Earth Technologies, Inc., 655 Montgomery St., San Francisci, CA 94111

Necessary Trading Co., P. O. Box 305, New Castle, VA 24127

New Plant Life Division, P. O. Box 45, LaPorte, IN 46350

New Rocky Mountain Bio-Products Inc., P.O. Box 608, Edwards, CO 81632

NK Lawn & Garden Co., P.O. Box 59282, Minneapolis, MN 55459

North Country Organics, RR#1, Box 2232, Bradford, VT 05033

NOR-AM Chemical Co., 3509 Silverside Rd., P.O. Box 7495, Wilmington, DE 19803

Nutrico Inc., 92 Howard Ave., Bridgeport, CT 06605

Nutrite Corporation, Box 803, Caribu Rd., Presque Isle, ME 04769

Offshore Ventures Inc., 10 New Market Square, Boston, MA 02118

Optiflora Inc., 1501 Lischev Ave., P.O. Box 8158, Nashville, TN 37207

O.M. Scott & Sons Co., 14310 Scotts Lawn Rd., Marysville, OH 43041

Parker Fertilizer Co., P.O. Box 540, Sylacauga, AL 35150

Paygro Inc., P. O. Box W, So. Charleston, OH 45368

PBI/Gordon Corp., P.O. Box 4090, 1217 West 12th St., Kansas City, MO 64101

Phelps Dodge Refining Corp., P.O. Box 20001, El Paso, TX 79998

Plant Marvels Labs Inc., 371 E. 16th St., Chicago Heights, IL 60411

Plant Research Labs, P.O. Box 3976, Laguna Hills, CA 92654

Plantabbs Corp., P.O. Box 397, Timonium, MD 21093

Plantco Inc., 314 Orenda Rd., Brampton, Ontario, Canada L6T 1G1

Platte Chemical Co., P.O. Box 667, Greeley, CO 80632

Pokon & Chrysal BY Gooimeer 7, 1411 DD Naarden, Holland

Pro-Lawn Products, c/o Universal Cooperative, P. O. Box 460, Minneapolis, MN 55440

P.B. Ohlstrom & Sons Inc., P.O. Box 964, Arlington Heights, IL 60006

Richlawn Turf Food Inc., 15121 Weld County Rd., Platteville, CO 80651

Ringer Corp., 9959 Valley View Rd., Eden Prairie, MN 55344

Roberta's Inc., P.O. Box 630, Shelbyville, IN 46176

Rockland Corp., P.O. Box 809, W. Caldwell, NJ 07007

Ross Daniels Inc., P.O. Box 1750, Lexington, KY 40593

R.G.B. Laboratories Inc., 1531 Charlotte St., Kansas City, MO 64108

S & D Products Inc., P.O. Box 66, Prairie du Chien, WI 53821

Schultz Co., 14090 Riverboat Dr., P.O. Box 173, Maryland Heights, MO 63043

Seacoast Laboratories Inc., Old Georges Rd.P.O. Box 373, Dayton, NJ 08810

Setra Chemical Co., 6075 Poplar Ave., Suite 500, Memphis, TN 38119

Southern Importers Inc., P.O. Box 8579, Greensboro, NC 27419

Southern States Cooperative Inc., P.O. Box 26234, Richmond, VA 23260

Spectrum Group/Div. of United Industries, P. O. box 15842, St. Louis, MO 63114

Spring Green Enterprises, Inc., 201 South Park, Fairfax, MN 55332

Stanford Seed Co., 340 Muddy Creek, Denver, PA 17517

Sta-Green Plant Food Co., P. O. Box 540, Sylacauga, AL 35150

Stern's Miracle-Gro Products Inc., P.O. Box 888, Port Washington, NY 11050

Stim-U-Plant Inc., 2077 Parkwood Ave., Columbus, OH 43219

Sudbury Consumer Products Co., 301 West Osburn Rd., Phoenix, AZ 85013

Sustane Corp., 1103 W Main St., P. O. Box 19, Cannon Falls, MN 55009

Tetra Sales, Div. of Warren Lambert, 201 Tabor Rd., Morris Plains, NJ 07950

Terra International, Inc., P. O. box 1900, Courtright, Ontario, Canada NON 1HO

The Anderson's, P.O. Box 119, Maumee, OH 43537

- 1. LaRoche Ind.**
- 2. Sears Roebuck & Co.**
- 3. Lofts Seed, Co.**
- 4. DBA: Free Flow Fertilizer**
- 5. Standford Seed Co.**
- 6. Hart Seed Co.**
- 7. Parker Fertilizer Co., Inc.**
- 8. Frank's Nursery & Crafts**
- 9. True Value Hardware**

The Davey Tree Expert Co., 1500 North Mantua St., Kent, OH 44240

The Espoma Co., 6 Espoma Rd., Millville, NJ 08332

The Ohio Grain Co., P. O. Box 640, Marysville, OH 43040

The Releaf Corporation, One Zorbit Drive, Mulberry, AR 72947

The Toro Co., 8111 Lyndale Ave., South Bloomington, MN 55420

Tritech Bio-Fertilizer, Inc., LSU/S Stadium Drive, Baton Rouge, LA 70803

Turf Specialty Inc., 15 Londonderry Rd., Unit 3, Londonderry, NH 03053

Universal Cooperative, P. O. Box 460, Minneapolis, MN 55440

Universal Chemical Corp., P.O. Box 341, West Lynn, MA 01905

Vicksburg Chemical Co., P. O. Box 821003, Vicksburg, MS 39182

Vigoro Industries Inc., P.O. Box 233, Portland, CT 06480

Vigoro Industries Inc., 2007 W. Highway 50, Fairview Heights, IL 62208

Voluntary Purchasing Groups, Inc., P. O. Box 460, Bonham, TX 75418

Weatherly Consumer Products Inc., P.O. Box 1750, Lexington, KY 40593

W. A. Cleary Chemical Corp., 1049 Somerset St., Somerset, NJ 08873

1993 COMMERCIAL FERTILIZER REGISTRATIONS

Arcadian Corporation, P. O. Box 265, Parsippany, NJ 07054

ASB Greenworld Inc., 82 Cherrywood Drive, Somerset, NJ 08873

Agway, Inc., Distribution Services, P. O. Box 4746, Syracuse, NY 13221

Agway, Inc., Feed & Crop Division, P. O. Box 4741, Syracuse, NY 13221

Agway, Inc., Consumer Group, P. O. Box 4746, Syracuse, NY 13221

Agriturf, Inc., 59 Dwight St., Hatfield, MA 01038

Allied Signal, Inc., P. O. Box 1559, Hopewell, VA 23860

Basins, Inc., P. O. Box 479, Gouverneur, NY 13642

Bio Groundskeeper, Inc., 6667 W. Old Shakopee Rd., Bloomington, MN 55438

Bourdeau Bros., Inc., RD #1, Box 328, Mason Rd., Champlain, NY 12919

Cargill Fertilizer, Inc., 8813 Highway 41 South, Riverview, FL 33569

Carolina Eastern Vail, Inc., P. O. box 405, Niverville, NY 12130

CF Industries, Inc., Salem Lake Drive, Long Grove, IL 60047

Chilean Nitrate Sales Corporation, 109 East Main St., Suite 500, Norfolk, VA 23510

Crop Production Services, Inc., Box 7013, Wilmington, DE 19801

Crop Production Services, Inc., RD #1, Box 219, Cobleskill, NY 12043

Crop Production Services, Inc., 181 Mill St., Marlboro, MA 01752

CSI Chemical Co., P. O. Box 39, Boundurant, IA 50035

Cytozyme Laboratories, Inc., 134 South 700 West, Salt Lake City, UT 84104

Gardinier, Inc., 8813 Highway 41 South, Riverview, FL 33569

Greenworld Products Corp., 401 North 3rd St., Suite 676, Minneapolis, MN 55401

Gulf of Maine Fertilizer/Portland Fish Exchange, 6 Portland Fish Pier, Portland, ME 04101

Helena Chemical Co., 5100 Poplar Ave., Suite 3200, Memphis, TN 38137

IMC Fertilizer Co., 421 Hawley St., Mundelein, IL 60060

J. F. Partyka & Son, Inc., 645 Shawinigan Drive, Chicopee, MA 01020

Kerley Ag., Inc., P. O. Box 11589, Phoenix, AR 85061

Leffingwell Chemical Co., 111 South Berry St., Brea, CA 92621

Micro-Flo Co., P. O. Box 5948, Lakeland, FL 33807

Ocean Crest Seafoods, Inc., P. O. Box 1183, 88 Commercial St., Gloucester, MA 01930

Setre Chemical Co., 5100 Poplar Ave., Suite 3200, Memphis, TN 38137

1993 LIME REGISTRATION

Aggrene Corporation, 915 Tower Ave., Superior, WI 54880

Agway, Inc., Agricultural Div., P. O. Box 4741, Syracuse, NY 13221

Agriturf, Inc., 59 Dwight St., Hatfield, MA 01038

Allyndale Corporation, Allyndale Rd., East Canaan, CT 06024

Ampel Manufacturing, P. O. Box 3628, 7200 Hickman, Des Moines, IA 50322

Baker, The J. E. Co., P. O. Box 1189, York, PA 17405

Basins, Inc., P. O. Box 479, Gouverneur, NY 13642

Chevron Chemical Co., 940 Hensley St., Richmond, CA 94804

Caudill Seed Co., 1201 Story Ave., Louisville, KY 40206

Conklin Limestone Co., Sand Rd., Canaan, CT 06018

Conklin Limestone Co., P. O. Box M, Lincoln, RI 02865

Dragon Products Co., Route 1, P. O. Box 191, Thomaston, ME 04861

Dragon Corporation, P. O. Box 7311, Roanoke, VA 24019

Gro-Tec, Inc., P. O. Box 290, Madison, GA 30650

Hoffman, A. H. Inc., 77 Cooper Ave., Landisville, PA 17538

Hyponex Corporation, 14310 Scottslawn Rd., Marysville, OH 43041

Lesco, Inc., 20005 Lake Rd., Rocky River, OH 44116

Lee Lime Corporation, P. O. Box 710, Quarry Rd., Lee, MA 01238

Limestone Products Corporation of America, P. O. Box 217, Sparta, NJ 07871

Material Resources, Inc., P. O. Box 499, Clifton Park, NY 12065

Natural Earth Technologies Inc., 655 Montgomery St., San Francisco, CA 94111

Natural Earth Technologies Inc./Shaklee Products, 655 Montgomery St., San Francisco, CA 94111

New England Silica, Inc., 1270 John Fitch Blvd., P. O. Box 185, So. Windsor, CT 06074

Nutrite Corporation, Box 803, Caribou Rd., Presque Isle, ME 04769

Pfizer Inc., 260 Columbia St., Adams, MA 01220

Seacoast Laboratories Inc., Old Georges Rd., Dayton, NJ 08810

Specialty Minerals Inc., 260 Columbia St., Adams, MA 01220

United States Gypsum Co., 101 South Wacker Dr., Chicago, IL 60606

Voluntary Purchasing Groups, Inc., P. O. Box 460, Bonham, TX 75418

White's Stone / Pelletizing Co., Drawer 1300, St. Paul, VA 24283

W. A. Cleary Chemical Corp., 1049 Somerset St., Somerset, NJ 08873

MASSACHUSETTS

YEAR ENDING JUNE 30

1970 1975 1980 1985 1989 1990 1991 1992

COMMERCIAL FERTILIZERS (Short Tons)

Total Fertilizer	69,596	67,066	65,741	68,332	62,077	82,568	78,265	88,957
Total N	8,159	7,866	9,081	9,068	8,746	13,109	11,515	13,224
N in multi-nutrients	6,186	6,271	7,417	7,354	7,473	9,918	9,294	10,734
Total P2O5	6,325	5,588	5,444	6,052	3,591	5,095	4,900	5,508
P2O5 in multi-nutrients	5,516	4,961	4,990	5,802	3,526	4,943	4,818	5,388
Total K2O	6,071	6,049	6,375	7,648	4,918	7,199	7,425	8,106
K2O in multi-nutrients	4,924	4,897	4,785	5,217	4,432	5,301	5,121	6,035
Total plant nutrients	20,555	19,503	20,900	22,767	17,255	25,404	23,840	26,837
Average analysis	29.6	29.1	31.8	35.7	34.5	36.4	36.7	36.1
Total nutrients in multi-nutrients	16,626	16,129	17,192	18,373	15,431	20,162	19,233	22,157
Average analysis of multi-nutrients	31.4	31.1	34.1	33.9	37.0	36.2	37.3	37.4

SELECTED SINGLE-NUTRIENT MATERIALS (Short Tons of material)

Ammonium nitrate	1,868	863	424	271	101	734	304	229
Nitrogen solutions	240	341	245	1,053	1,217	1,030	826	771
Urea	1,331	1,554	2,451	2,808	619	4,160	3,620	4,216
Ammonium sulfate	296	96	28	13	28	176	125	72
Sodium nitrate	116	19	31	-	99	104	167	173
Ordinary superphosphate	527	321	197	17	172	118	86	73
Concentrated superphosphate	139	192	369	533	31	216	91	193
Secondary and micronutrients	63	36	117	4,584	12,095	12,687	13,357	14,662
Potash materials (chloride)	1,598	1,313	2,290	3,693	465	2,647	3,197	2,890

JULY-DECEMBER FERTILIZER CONSUMPTION (%)

Multiple-nutrients	19.8	22.9	23.6	22.5	34.8	30.9	25.6	27.1
Single-nutrients	17.2	19.2	19.2	28.1	24.8	25.0	21.5	23.6
All fertilizers	19.2	22.1	22.6	23.7	31.5	28.9	24.2	25.9

CONSUMPTION OF FERTILIZERS BY CLASS (Tons of material)

Dry bulk single-nutrient	3,810	4,900	5,000	6,169	5,841	9,924	9,720	11,222
Dry bagged single-nutrient	12,530	10,000	9,900	2,373	1,133	3,092	2,822	2,987
Total dry single-nutrient	16,340	14,900	14,900	8,542	6,975	13,016	12,542	14,209
Dry bulk multiple-nutrient	13,324	8,400	6,600	6,273	5,069	8,857	7,060	12,627
Dry bagged multiple-nutrient	37,226	40,800	41,300	40,956	33,909	37,791	40,601	42,902
Total dry multiple-nutrient	50,550	49,200	47,900	47,229	38,978	46,648	47,662	55,528
Fluid single-nutrient	240	300	300	949	1,254	1,232	869	830
Fluid multiple-nutrient	2,403	2,600	2,500	5,482	2,775	8,985	3,836	3,728
Total single-nutrient	16,580	15,216	15,207	9,491	8,229	14,248	13,411	15,040
Total multiple-nutrient	52,953	51,814	50,417	54,257	41,753	55,633	51,497	59,256

CONSUMPTION OF MULTIPLE-NUTRIENT FERTILIZERS (Short Tons of material)

N-P-K	-	-	-	51,348	37,569	49,561	46,044	52,998
N-P	-	-	-	1,363	985	3,128	2,293	2,310
N-K	-	-	-	-	2,677	2,467	2,653	3,520
P-K	-	-	-	-	523	476	507	428

LEADING GRADES

1975		1985		1990		1991		1992	
Grade	Tons	Grade	Tons	Grade	Tons	Grade	Tons	Grade	Tons
10-10-10	9,161	10-10-10	6,452	16-2-6	5,552	10-10-10	3,636	10-10-10	3,674
5-10-10	3,904	10-6-4	2,589	10-10-10	3,931	29-3-4	2,949	29-3-4	3,042
10-6-4	3,847	5-10-10	2,258	29-3-4	2,512	16-2-6	2,281	16-2-6	2,148
15-8-12	2,084	27-3-3	2,199	18-46-0	1,779	28-3-3	2,056	28-3-3	2,144
5-10-5	2,057	15-15-15	2,121	10-6-4	1,532	10-6-4	1,770	10-6-4	1,793
8-10-10	1,876	10-20-10	1,665	5-10-5	1,214	18-46-0	1,523	5-10-5	1,562
15-15-15	1,788	5-10-5	1,551	36-3-10	1,205	5-10-5	1,269	13-13-13	1,357
15-10-10	1,713	18-46-0	1,362	27-3-3	1,044	30-4-4	953	18-46-0	1,331
8-16-16	1,258	15-8-12	1,307	10-20-10	995	10-20-10	925	15-15-15	995
6-2-0	1,087	26-3-3	1,028	28-3-4	913	15-15-15	863	10-20-10	985
Total 10 leading grades	28,775		22,532		20,677		18,225		19,031

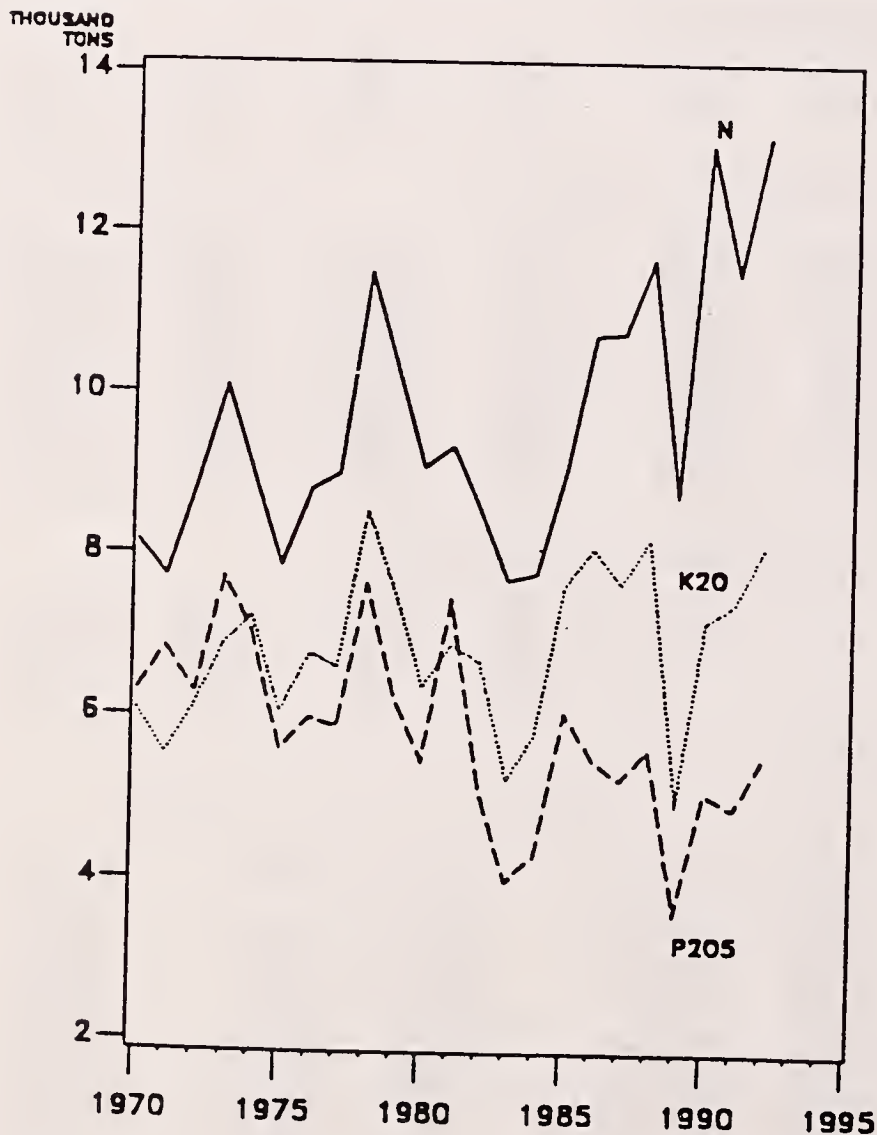
FERTILIZER AND HARVESTED ACREAGE

	1970	1975	1980	1985	1989	1990	1991	1992
Harvested crop acreage (1,000 acres)	153	162	164	164	136	135	136	135
Total nutrients (lbs/acre harvested)	269	241	255	278	254	376	351	398

SELECTED RECEIPTS AND EXPENSES (Calendar Year)

	1970	1975	1980	1985	1989	1990	1991
Cash receipts from crops (\$mil)	69.50	100.90	169.90	262.40	321.03	321.17	354.80
Cash receipts from livestock (\$mil) and livestock products	85.30	100.60	127.00	127.10	112.92	124.71	120.75
Total expense for fertilizer and lime (\$mil)	3.00	6.80	9.00	9.20	7.58	10.08	10.01
Total expense for pesticides (\$mil)	-	-	4.50	6.20	8.84	9.30	10.27
Total expense for seeds (\$mil)	3.50	5.40	7.80	5.90	6.79	6.82	7.58

CONSUMPTION OF PLANT NUTRIENTS



CONSUMPTION OF SELECT MATERIALS

